

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Incident ID	NAPP2301649023
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Delek Logistics	OGRID: 330291
Contact Name: Cassie Whitefield	Contact Telephone: 870-310-9078
Contact email: cassie.whitefield@deleklogistics.com	Incident # (assigned by OCD): napp2301649023
Contact mailing address	

Location of Release Source

Latitude 32.394931 Longitude -103.576592
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Doodlebug SWD Release Site	Site Type
Date Release Discovered: 12/28/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	16	22S	33E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) - 30	Volume Recovered (bbls) - 30
	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)

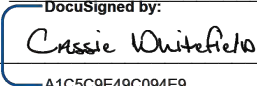
Cause of Release: Equipment Failure

Incident ID	NAPP2301649023
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?
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 September 14, 2022 and left a voicemail. Called emergency hotline.	

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. Env., Health, and Safety Manager, MPH</u>
Signature: <u></u>	Date: <u>1/30/2023</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>01/30/2023</u>

Incident ID	NAPP2301649023
District RP	
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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?	UNK (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.

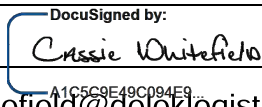
Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ 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.

Incident ID	NAPP2301649023
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Printed Name: Cassie Whitefield Title: Sr. Env., Health, and Safety Manager, MPH
Signature:  Date: 7/24/2023
email: cassie.whitefield@deleklogistics.com Telephone: 870-310-9078

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2301649023
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Facility ID	
Application ID	

Closure

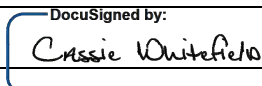
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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: Sr. Env., Health, and Safety Manager, MPH

Signature:  Date: 7/24/2023

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: 12603583-NMOCD-1

July 27, 2023

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

Site Characterization and Closure Report
Delek Doodlebug SWD Release Site
3 Bear Energy-Cottonwood, LLC
Incident ID: napp2301649023
G-16-22S-33E, Lea County, New Mexico

1. Introduction

GHD Services, Inc. (GHD), on behalf of 3 Bear Energy-Cottonwood, LLC, and operated by Delek Logistics Partners, LP (Delek), submits this Site Characterization and Closure Report to the State of New Mexico Oil Conservation Division (NMOCD) District I Office. This report provides documentation of remedial activities in the affected area at the Doodlebug SWD Release Site (Site). Delek is the operator of the pad location and associated equipment surrounding the release area. The Site is located in Unit Letter G Section 16 of Township 22 South and Range 33 East in Lea County, New Mexico. The initial C141 reported the locations to be in Unit Letter S Section 15; however, the correct Unit Letter is G Section 16. The C141 has been updated to accurately reflect this change. The GPS coordinates for the release site are 32.394931° N Latitude and 103.576592° W Longitude. The surface owner of the land where the release occurred is the New Mexico State Land Office (NMSLO). Figure 1 depicts the Site location. The Site and other details are depicted on Figure 2.

2. Background and Regulatory Notification Information

The release falls under the jurisdiction of the NMOCD District I Office in Hobbs, New Mexico. Notice was given to the NMOCD via phone call to Mike Bratcher (NMOCD) made by Cassie Whitefield on September 14, 2022. A C-141 Release Notification for this release was submitted to the NMOCD on January 30, 2022, and stated that the volume of produced water released was 30 barrels (bbls). The NMOCD assigned the release with Incident Number napp2301649023. The release occurred as a result of equipment failure. Approximately 30 barrels (bbls) of produced water was recovered. The Release Notification, Site Assessment/Characterization and Closure portions of Form C-141 are attached to the front of this report.

3. Site Characterization and Closure Criteria

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

According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i), the Site is located within an area of low karst potential. No groundwater data was available within one-half mile of the Site. In addition, no receptors (i.e., water wells, playas, wetlands, waterways, lakebeds, or ordinance boundaries) were located within each regulatory specified distance and/or boundary from the Site. The Site is not located in a mapped floodplain. Documentation of the Site characterization and receptor review are included as Attachment A. Based on the results of the site characterization, the closure criteria are listed below.

General Site Characterization and Groundwater Information

Site Characterization	Average Groundwater Depth (ft)
No Receptors Found	Unknown, treated as less than fifty (50) feet

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

Regulatory Standard	Chloride (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	600	100	50	10

4. Soil Remediation Activities

4.1 Initial Remedial Excavation and Soil Assessment

On December 11, 2022, Delek's contractor Frontier Development, Inc. (Frontier) fixed the source of the release and initiated soil excavation activities to remove visibly stained soil and transported it offsite for disposal. Following the removal of visibly stained soil, Delek contracted GHD to assess and remediate the affected area.

4.2 Excavation Confirmation Soil Sampling

Based on soil screening levels gathered after the initial remedial excavation, Frontier re-mobilized to the Site and began excavation activities, under GHD's general oversight. From February 8, 2023 through April 5, 2023, GHD collected a total of one hundred nine (109) bottom hole and twenty-one (21) sidewall composite confirmation soil samples. Composite confirmation samples represented areas no greater than two hundred square feet. The confirmation bottom hole soil samples depths range from four (4) to five (5) feet below ground surface (bgs) and the confirmation sidewall soil samples depth intervals range from zero (0) to four (4) feet and four (4) to five (5) feet bgs, respectively. Eurofins Environmental Testing America (Eurofins) in Midland, Texas analyzed the soil samples for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by 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.

On February 8 and 15, 2023, GHD and Frontier mobilized to the Site to conduct remedial excavation activities. GHD collected fifty (50) bottom hole and sixteen (16) sidewall composite confirmation samples. The confirmation bottom hole soil samples were collected at a depth of four (4) feet bgs and the confirmation sidewall soil samples were collected from zero (0) to four (4) feet bgs. All soil samples were submitted to Eurofins in Midland, Texas, and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA Method 300.0.

Analytical results for samples collected from February 8 and 15, 2023 indicated none of the confirmation soil samples exhibited benzene, BTEX, or TPH concentrations above applicable NMAC Table I Closure Criteria. Eight (8) of the confirmation soil samples exhibited chloride concentrations above the NMAC Table I Closure Criteria: BH-17, BH-49, BH-66, BH-88, SW-9, SW-10, SW-11, and SW-12. Sample locations are shown on Figure 2. Analytical results are summarized in Table 1 and the laboratory analytical reports included as Attachment B.

On March 2, 2023, GHD and Frontier re-mobilized to the Site to conduct additional remedial excavation activities around soil sample locations that exceeded the NMAC Table I Closure Criteria and collect additional samples. The areas around BH-17, BH-49, BH-66, and BH-88 were further excavated from four (4) feet bgs to four and one quarter (4.25) feet bgs and resampled as BH-17A, BH-49A, BH-66A, and BH-88A, respectively. Sidewalls SW-9, SW-10 and SW-11 were not excavated further due to equipment structural stability concerns. Remediation of the SW-9, SW-10, and SW-11 areas would be requested for deferral until Site decommissioning. An additional fifty-two (52) bottom hole confirmation samples were also collected at four (4) feet bgs.

Analytical results for samples collected March 2, 2023 indicated none of the confirmation soil samples exhibited benzene or BTEX concentrations above applicable NMAC Table I Closure Criteria. Three (3) of the confirmation soil samples exhibited TPH and chloride concentrations above the NMAC Table I Closure Criteria: BH-4, BH-10, and BH-20. Sample locations are shown on Figure 2. Analytical results are summarized in Table 1 and the laboratory analytical reports included as Attachment B.

On March 22, 2023, GHD and Frontier re-mobilized to the Site to conduct additional remedial excavation activities around soil sample locations that exceeded the NMAC Table I Closure Criteria. The areas around BH-4, BH-10, and BH-20 were further excavated from four (4) feet bgs to five (5) feet bgs and resampled as BH-4A, BH-10A, and BH-20A, respectively. The sidewall where SW-12 was collected was further excavated and resampled as SW-12A. Three additional sidewall confirmation samples were also collected. All soil samples were submitted to Eurofins in Midland, Texas, and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA Method 300.0.

Analytical results for samples collected March 22, 2023 indicated none of the confirmation soil samples exhibited benzene, BTEX, or chloride concentrations above applicable NMAC Table I Closure Criteria. One (1) of the confirmation soil samples exhibited a TPH concentration above the NMAC Table I Closure Criteria: SW-18. Sample locations are shown on Figure 2. Analytical results are summarized in Table 1 and the laboratory analytical reports included as Attachment B.

On April 5, 2023, GHD and Frontier re-mobilized to the Site to conduct additional remedial excavation activities around soil sample locations that exceeded the NMAC Table I Closure Criteria. The sidewall where SW-18 was collected was further excavated and resampled as SW-18A. The soil sample was submitted to Eurofins in Midland, Texas, and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA Method 300.0.

Analytical results for the sample collected April 5, 2023, indicated the confirmation soil sample did not exhibit benzene, BTEX, TPH, or chloride concentrations above applicable NMAC Table I Closure Criteria. Sample locations are shown on Figure 2. Analytical results are summarized in Table 1 and the laboratory analytical reports included as Attachment B.

4.3 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 3,200 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.

Based on the benzene, BTEX, and TPH analytical results being below the applicable NMAC Table I Closure Criteria, no further excavation was conducted. 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. A summary of soil disposal information is included in Table 2. A photographic log is included as Attachment C. Once backfilling is complete, GHD will prepare and submit an addendum to this report with photos depicting the backfilled excavation.

5. napp2301649023 Deferral and Closure Request

Site characterization, soil delineation, and remediation activities for Incident napp2301649023 have been performed in accordance with applicable OCD guidance and regulations. GHD, on behalf of Delek, requests deferral of the remediation of produced water impacted soils immediately surrounding the tank battery represented by soil samples SW-9, SW-10, and SW-11 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 napp2301649023.

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

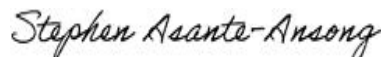
Regards,



J.T. Murrey
Senior Project Manager

+1 423 203-8668
jt.murrey@ghd.com

JTM/mss/1



Stephen Asante-Ansong
Project Manager

+1 713 380-7616
stephen.asante-anson@ghd.com

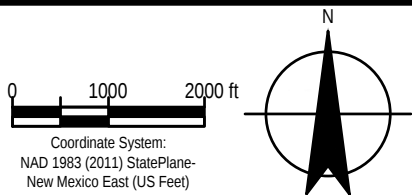
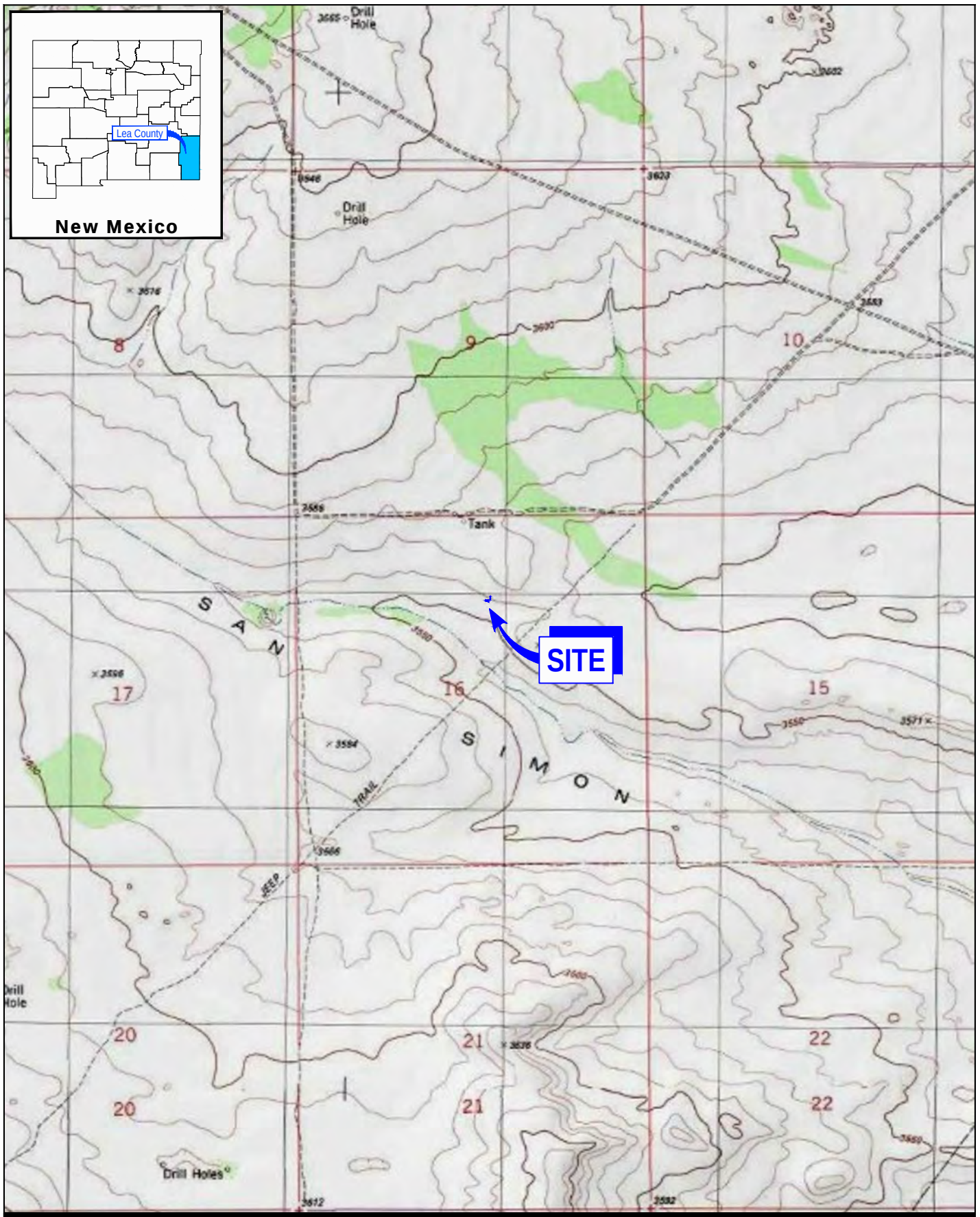
Encl. Table 1 – Summary of Soil Analytical Data
 Table 2 – Summary of Waste Management Information
 Figure 1 – Site Location Map
 Figure 2 – Confirmation Sample Locations Map
 Figure 3 – Deferred Remediation Locations Map
 Attachment A – Site Characterization/Assessment Documentation
 Attachment B – Laboratory Analytical Reports and Chain-of-Custody Documentation
 Attachment C – Photographic Log
 Attachment D – Sampling Notifications

Copy to: Cassie Whitefield, Delek

Table 2

**Daily Disposal Summary
Delek Doodlebug
Lea County, New Mexico**

Date of Disposal	Total Yards Disposed
12/30/2022	120
12/31/2022	280
1/2/2023	307
1/3/2023	120
1/4/2023	340
1/6/2023	572
1/7/2023	560
1/9/2023	252
1/10/2023	168
1/12/2023	248
2/28/2023	96
3/1/2023	112
3/22/2023	24
Project Total	3,199

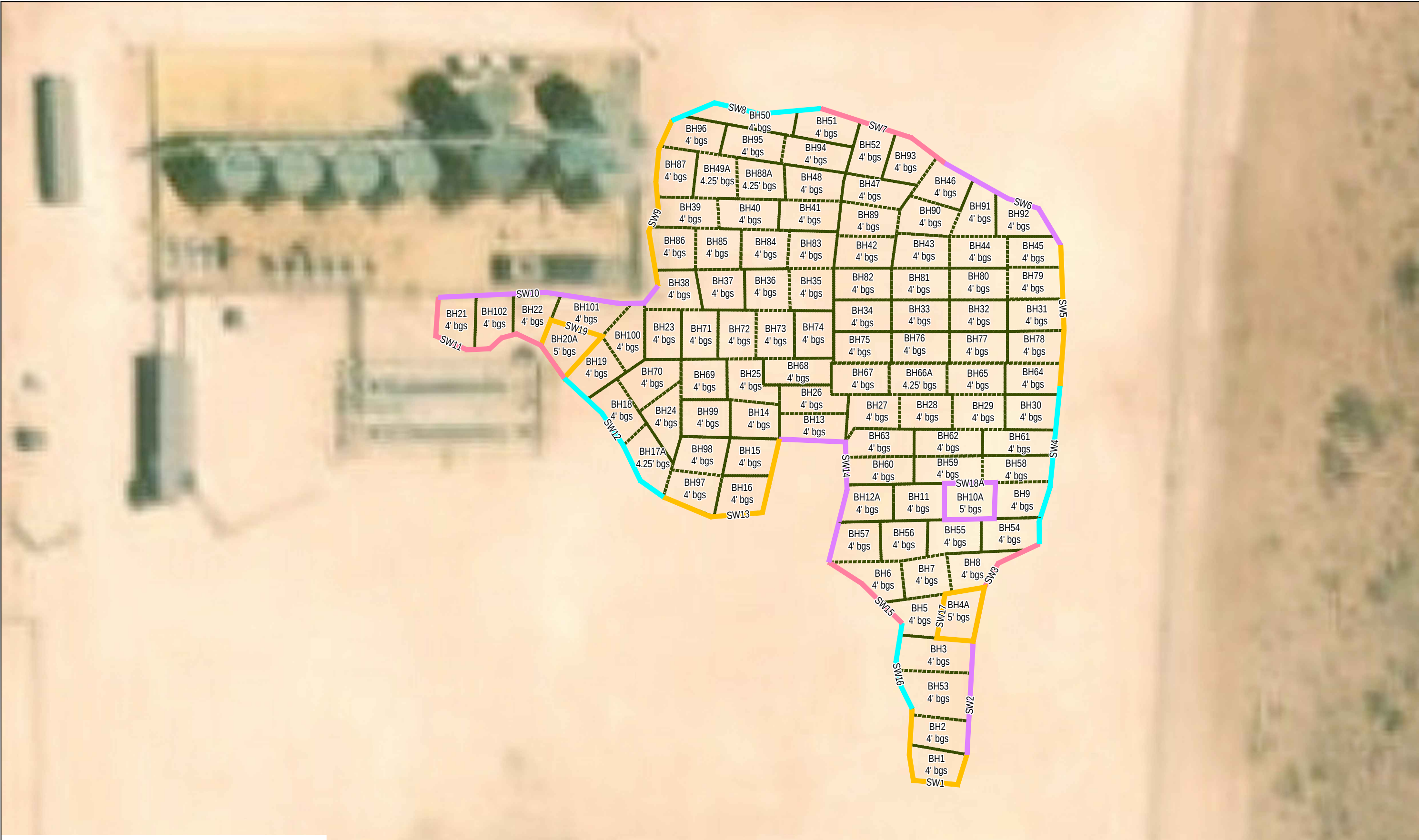


3 BEAR ENERGY-COTTONWOOD, LLC.
OPERATED BY DELEK LOGISTICS PARTNERS, L.P.
LEA COUNTY, NEW MEXICO
McCord Release - nAPP2301649023

Project No. 12603583
Date June 2023

SITE LOCATION MAP

FIGURE 1



LEGEND

- EXCAVATED AREA
- SW016 INDICATES SIDE WALL COMPOSITE SAMPLE
- SW01 INDICATES SIDE WALL COMPOSITE SAMPLE
- SW02 INDICATES SIDE WALL COMPOSITE SAMPLE
- SW03 INDICATES SIDE WALL COMPOSITE SAMPLE

NOTE:
SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.

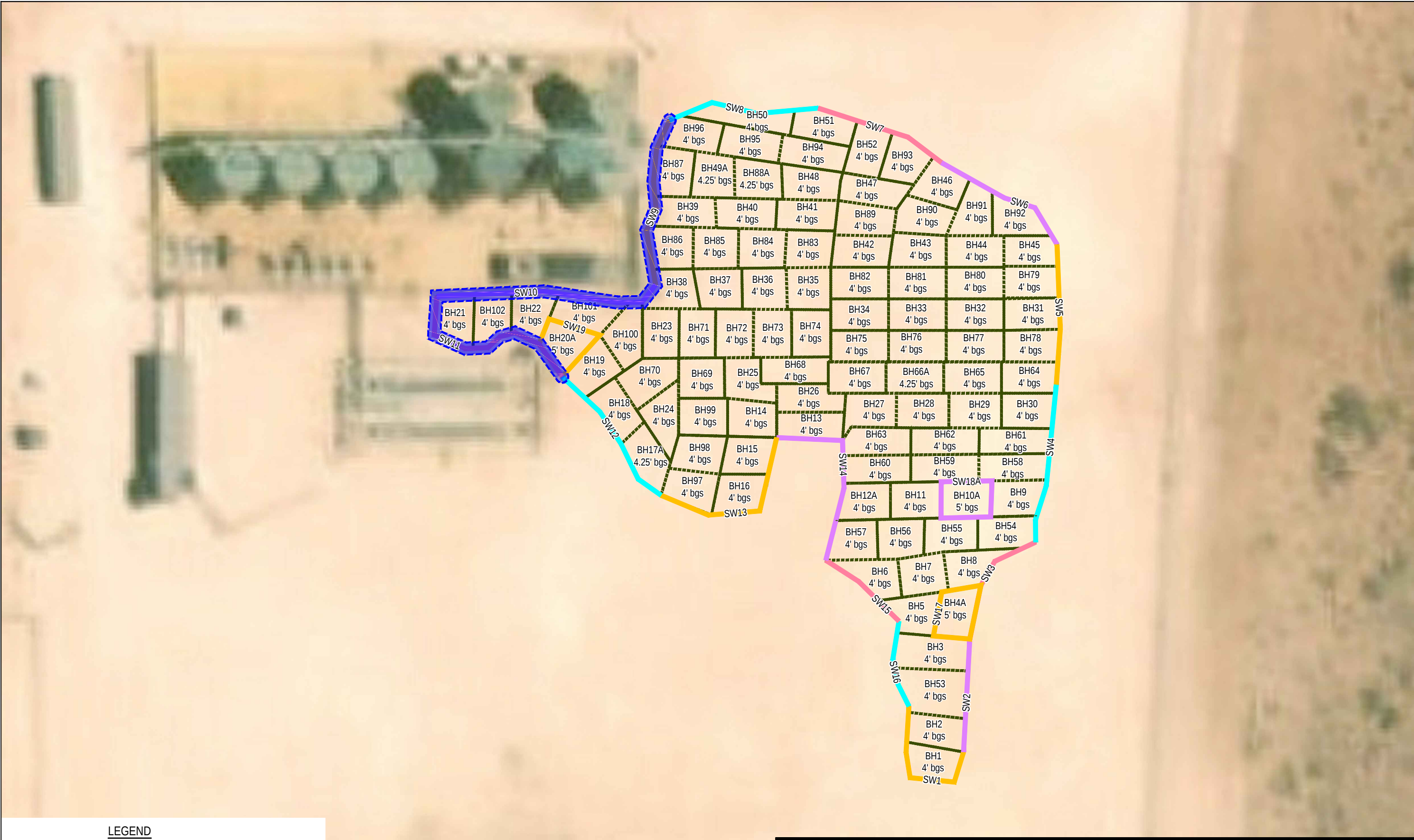
Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

3 BEAR ENERGY-COTTONWOOD, LLC.
OPERATED BY DELEK LOGISTICS PARTNERS, L.P.
LEA COUNTY, NEW MEXICO
McCord Release - nAPP2301649023

**CONFIRMATION SAMPLING:
SOIL ANALYTICAL RESULTS MAP**

Project No. **12603583**
Date **June 2023**

FIGURE 2



LEGEND

- EXCAVATED AREA
- DEFERRED REMEDIATION AREA
- SW016 INDICATES SIDE WALL COMPOSITE SAMPLE
- SW01 INDICATES SIDE WALL COMPOSITE SAMPLE
- SW02 INDICATES SIDE WALL COMPOSITE SAMPLE
- SW03 INDICATES SIDE WALL COMPOSITE SAMPLE

NOTE:
SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.

0 15 30 ft

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

N

GHD

3 BEAR ENERGY-COTTONWOOD, LLC.
OPERATED BY DELEK LOGISTICS PARTNERS, L.P.
LEA COUNTY, NEW MEXICO
McCord Release - nAPP2301649023

Project No. 12603583
Date June 2023

DEFERRED REMEDIATION
LOCATIONS MAP

FIGURE 3

Attachments

Attachment A

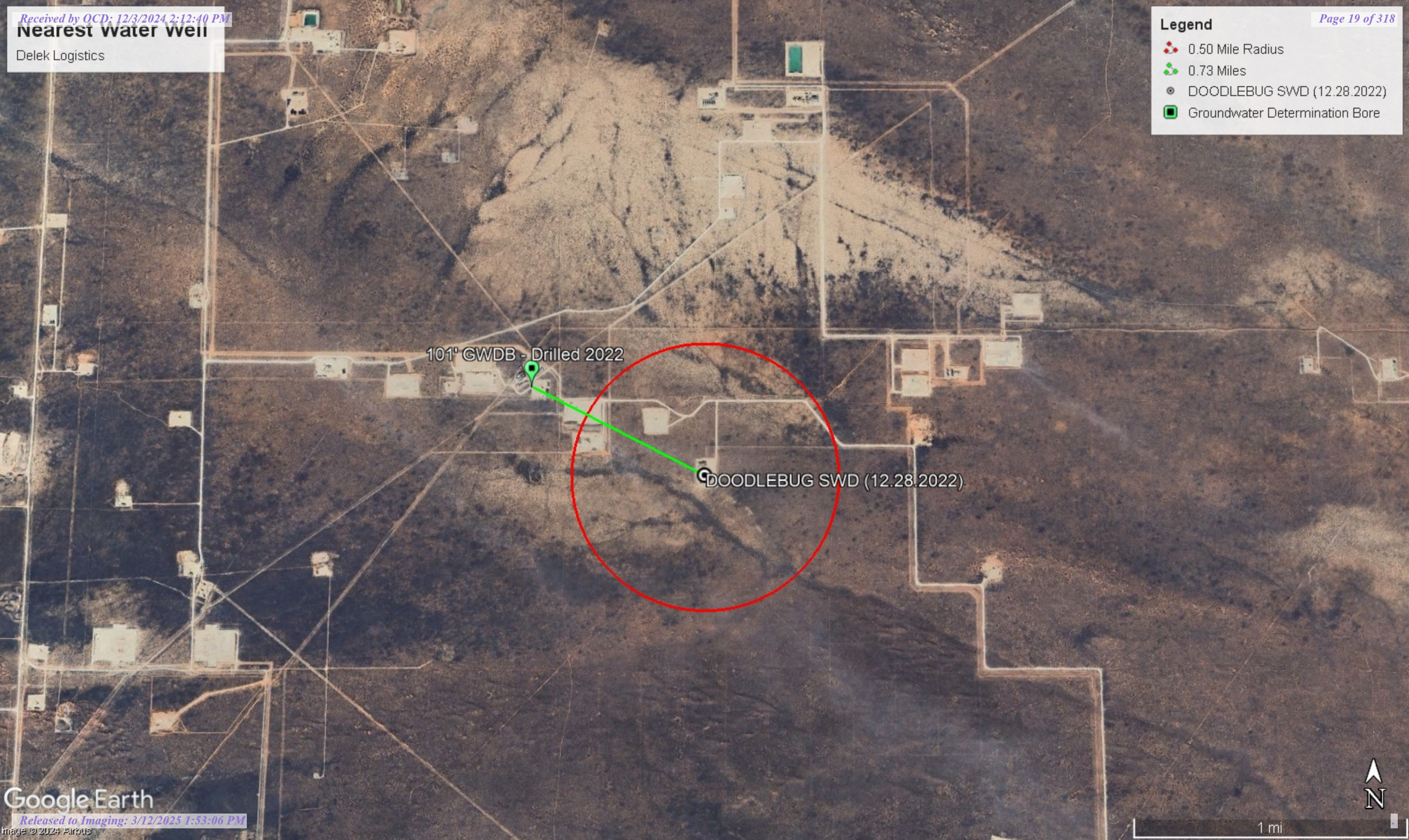
Site Characterization/Assessment Documentation

Nearest water well

Delek Logistics

Legend

- 0.50 Mile Radius
- 0.73 Miles
- DOODLEBUG SWD (12.28.2022)
- Groundwater Determination Bore



101' GWDB - Drilled 2022

DOODLEBUG SWD (12.28.2022)

Low Karst

Delek Logistics

Legend

- DOODLEBUG SWD (12.28.2022)
- Low

DOODLEBUG SWD (12.28.2022)





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are smallest to largest) (meters) (In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
CP 01899 POD1		CP	LE	SE	SE	SE	08	22S	33E	632811.3	3585622.5		1182			
CP 01881 POD1		CP	LE	NE	SE	NE	06	22S	33E	631319.3	3588157.2		3981			

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

Maximum Depth: 0 feet

Record Count: 2

UTM Filters (in meters):

Easting: 633874.00
Northing: 3585103.00
Radius: 4000

* UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO.		OSE FILE NO(S). CP-1899			
	WELL OWNER NAME(S) Marathon Oil				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 4111 S Tidwell Rd.				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 23	SECONDS 59.07 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SE SE Sec. 09 T22S R33E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 2/9/2022	DRILLING ENDED 2/24/2022	DEPTH OF COMPLETED WELL (FT) temporary casing		BORE HOLE DEPTH (FT) ±101	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	DATE STATIC MEASURED 2/24/22, 3/8/2022	
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER – SPECIFY: Hollow Stem Auger					CHECK HERE IF FITLESS ADAPTER IS INSTALLED ☐		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 101		±8.5	Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	CP-1899	POD NO.	POD1	TRN NO.	717713
LOCATION	SESESE	8 22S	33E	WELL TAG ID NO.	NA

PAGE 1 OF 2

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 717713
File Nbr: CP 01899
Well File Nbr: CP 01899 POD1

Mar. 22, 2022

MELODIE SANJARI
MARATHON OIL
4111 S TIDWELL RD
CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 01/31/2022.

The Well Record was received in this office on 03/11/2022, stating that it had been completed on 02/24/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/31/2023.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in blue ink, appearing to read "M. Telles", written over a horizontal line.

Megen Telles
(575) 622-6521

drywell

DOODLEBUG SWD (12.28.2022)

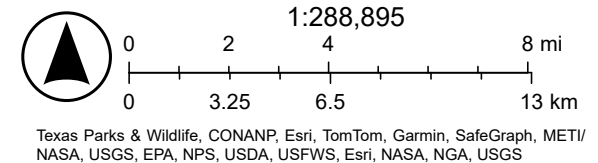


12/2/2024

USA Flood Hazard Areas

 1% Annual Chance Flood Hazard

World Hillshade

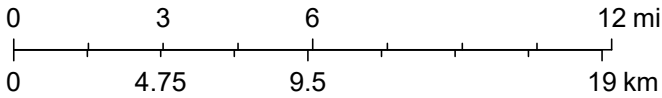


DOODLEBUG SWD (12.28.2022)

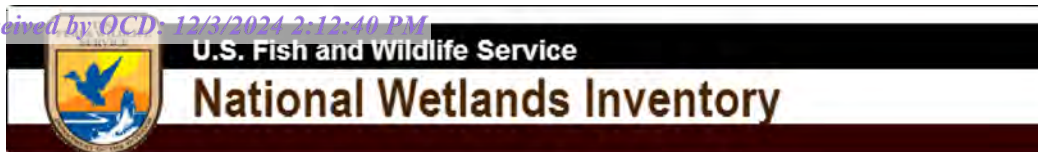


12/2/2024, 3:24:49 PM

1:288,895



Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS



Doodlebug SWD Release Site



January 19, 2023

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°43'7"W 32°39'20"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) 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 1/18/2023 at 6:42 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

Laboratory Analytical Reports and Chain-of-Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/22/2023 3:43:44 PM

JOB DESCRIPTION

Doodlebug SWD Release Site
SDG NUMBER 12603583

JOB NUMBER

880-24903-1

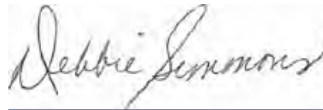
Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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
2/22/2023 3:43:44 PM

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

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Laboratory Job ID: 880-24903-1
SDG: 12603583

Table of Contents

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F2	MS/MSD 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
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
SDL	Sample Detection Limit

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Job ID: 880-24903-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-24903-1

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 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH-1 (880-24903-1), BH-2 (880-24903-2), BH-5 (880-24903-3), BH-6 (880-24903-4), BH-7 (880-24903-5), BH-8 (880-24903-6), BH-9 (880-24903-7), BH-11 (880-24903-8), BH-12 (880-24903-9), BH-13 (880-24903-10), BH-15 (880-24903-11), BH-17 (880-24903-12), BH-19 (880-24903-13), BH-21 (880-24903-14), BH-26 (880-24903-15), BH-27 (880-24903-16), BH-28 (880-24903-17), BH-31 (880-24903-18), BH-33 (880-24903-19), BH-34 (880-24903-20), BH-41 (880-24903-21), BH-44 (880-24903-22), BH-46 (880-24903-23), BH-48 (880-24903-24), BH-49 (880-24903-25), BH-50 (880-24903-26) and BH-51 (880-24903-27).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-1 (880-24903-1), BH-2 (880-24903-2), BH-5 (880-24903-3), BH-6 (880-24903-4), BH-7 (880-24903-5), BH-8 (880-24903-6), BH-9 (880-24903-7), BH-11 (880-24903-8), BH-12 (880-24903-9), BH-13 (880-24903-10), BH-15 (880-24903-11), BH-17 (880-24903-12), BH-19 (880-24903-13), BH-21 (880-24903-14), BH-26 (880-24903-15), BH-27 (880-24903-16), BH-28 (880-24903-17), BH-31 (880-24903-18), BH-33 (880-24903-19), BH-34 (880-24903-20), BH-41 (880-24903-21), BH-44 (880-24903-22), BH-46 (880-24903-23), BH-48 (880-24903-24), BH-49 (880-24903-25), BH-50 (880-24903-26), BH-51 (880-24903-27), (CCV 880-46680/2), (CCV 880-46680/20), (CCV 880-46680/33), (CCV 880-46680/51), (LCS 880-46708/1-A), (LCS 880-46759/1-A), (LCSD 880-46708/2-A), (LCSD 880-46759/2-A), (MB 880-46708/5-A), (MB 880-46759/5-A), (880-24903-A-1-D MS), (880-24903-A-1-E MSD), (880-24903-A-21-D MS) and (880-24903-A-21-E MSD). 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 880-46801 and analytical batch 880-46675 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 sample was outside control limits: BH-21 (880-24903-14). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-46800 and analytical batch 880-46679 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 sample was outside control limits: (MB 880-46824/1-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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-46685 and analytical batch 880-46705 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.

Case Narrative

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Job ID: 880-24903-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-1

Lab Sample ID: 880-24903-1

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 14:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/20/23 12:27	02/20/23 14:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/20/23 12:27	02/20/23 14:52	1
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.00403		mg/Kg		02/20/23 12:27	02/20/23 14:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/20/23 12:27	02/20/23 14:52	1
Xylenes, Total	<0.00403	U F2 F1	0.00403		mg/Kg		02/20/23 12:27	02/20/23 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	02/20/23 12:27	02/20/23 14:52	1
1,4-Difluorobenzene (Surr)	82		70 - 130	02/20/23 12:27	02/20/23 14:52	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			02/21/23 16:14	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.6		49.9		mg/Kg			02/21/23 14:33	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		02/20/23 17:00	02/20/23 21:17	1
Diesel Range Organics (Over C10-C28)	55.6	*- F2	49.9		mg/Kg		02/20/23 17:00	02/20/23 21:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/20/23 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	02/20/23 17:00	02/20/23 21:17	1
o-Terphenyl	100		70 - 130	02/20/23 17:00	02/20/23 21:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		5.05		mg/Kg			02/20/23 13:53	1

Client Sample ID: BH-2

Lab Sample ID: 880-24903-2

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 15:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/23 12:27	02/20/23 15:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/23 12:27	02/20/23 15:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/23 12:27	02/20/23 15:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/23 12:27	02/20/23 15:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/23 12:27	02/20/23 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	14	S1-	70 - 130	02/20/23 12:27	02/20/23 15:18	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-2

Lab Sample ID: 880-24903-2

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	02/20/23 12:27	02/20/23 15:18	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			02/21/23 16:14	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.7		49.9		mg/Kg			02/21/23 14:33	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		02/20/23 17:00	02/20/23 22:17	1
Diesel Range Organics (Over C10-C28)	60.7	*-	49.9		mg/Kg		02/20/23 17:00	02/20/23 22:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/20/23 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				02/20/23 17:00	02/20/23 22:17	1
o-Terphenyl	99		70 - 130				02/20/23 17:00	02/20/23 22:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		5.00		mg/Kg			02/20/23 14:10	1

Client Sample ID: BH-5

Lab Sample ID: 880-24903-3

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 15:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 15:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 15:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/23 12:27	02/20/23 15:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 15:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/23 12:27	02/20/23 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	02/20/23 12:27	02/20/23 15:45	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/20/23 12:27	02/20/23 15:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/21/23 16:14	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.4		49.9		mg/Kg			02/21/23 14:33	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-5

Lab Sample ID: 880-24903-3

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 17:00	02/20/23 22:38	1
Diesel Range Organics (Over C10-C28)	58.4	*-	49.9		mg/Kg		02/20/23 17:00	02/20/23 22:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/20/23 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				02/20/23 17:00	02/20/23 22:38	1
o-Terphenyl	103		70 - 130				02/20/23 17:00	02/20/23 22:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.99		mg/Kg			02/20/23 14:15	1

Client Sample ID: BH-6

Lab Sample ID: 880-24903-4

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 16:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/20/23 12:27	02/20/23 16:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/20/23 12:27	02/20/23 16:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/20/23 12:27	02/20/23 16:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/20/23 12:27	02/20/23 16:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/20/23 12:27	02/20/23 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				02/20/23 12:27	02/20/23 16:11	1
1,4-Difluorobenzene (Surr)	81		70 - 130				02/20/23 12:27	02/20/23 16:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/21/23 16:14	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			02/21/23 14:33	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		02/20/23 17:00	02/20/23 22:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		02/20/23 17:00	02/20/23 22:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/20/23 22:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				02/20/23 17:00	02/20/23 22:59	1
o-Terphenyl	103		70 - 130				02/20/23 17:00	02/20/23 22:59	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-6

Lab Sample ID: 880-24903-4

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		4.95		mg/Kg			02/20/23 14:21	1

Client Sample ID: BH-7

Lab Sample ID: 880-24903-5

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 16:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 16:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 16:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/23 12:27	02/20/23 16:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 16:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/23 12:27	02/20/23 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				02/20/23 12:27	02/20/23 16:38	1
1,4-Difluorobenzene (Surr)	88		70 - 130				02/20/23 12:27	02/20/23 16:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/21/23 16:14	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			02/21/23 14:33	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		02/20/23 17:00	02/20/23 23:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		02/20/23 17:00	02/20/23 23:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/20/23 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				02/20/23 17:00	02/20/23 23:20	1
o-Terphenyl	104		70 - 130				02/20/23 17:00	02/20/23 23:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.9		4.97		mg/Kg			02/20/23 14:27	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-8

Lab Sample ID: 880-24903-6

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 17:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 17:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 17:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/23 12:27	02/20/23 17:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 17:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/23 12:27	02/20/23 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	02/20/23 12:27	02/20/23 17:04	1
1,4-Difluorobenzene (Surr)	84		70 - 130	02/20/23 12:27	02/20/23 17:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/21/23 16:14	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			02/21/23 14:33	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		02/20/23 17:00	02/20/23 23:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		02/20/23 17:00	02/20/23 23:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/20/23 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	02/20/23 17:00	02/20/23 23:41	1
o-Terphenyl	104		70 - 130	02/20/23 17:00	02/20/23 23:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.9		5.05		mg/Kg			02/20/23 14:44	1

Client Sample ID: BH-9

Lab Sample ID: 880-24903-7

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 17:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/20/23 12:27	02/20/23 17:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/20/23 12:27	02/20/23 17:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/20/23 12:27	02/20/23 17:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/20/23 12:27	02/20/23 17:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/20/23 12:27	02/20/23 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	02/20/23 12:27	02/20/23 17:30	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-9

Lab Sample ID: 880-24903-7

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	02/20/23 12:27	02/20/23 17:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/21/23 16:14	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			02/21/23 14:33	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		02/20/23 17:00	02/21/23 00:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		02/20/23 17:00	02/21/23 00:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 17:00	02/21/23 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				02/20/23 17:00	02/21/23 00:01	1
o-Terphenyl	101		70 - 130				02/20/23 17:00	02/21/23 00:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		4.97		mg/Kg			02/20/23 14:49	1

Client Sample ID: BH-11

Lab Sample ID: 880-24903-8

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 17:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/20/23 12:27	02/20/23 17:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/20/23 12:27	02/20/23 17:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/20/23 12:27	02/20/23 17:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/20/23 12:27	02/20/23 17:56	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/20/23 12:27	02/20/23 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				02/20/23 12:27	02/20/23 17:56	1
1,4-Difluorobenzene (Surr)	84		70 - 130				02/20/23 12:27	02/20/23 17:56	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			02/21/23 16:14	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			02/21/23 14:33	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-11
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33
Sample Depth: 4 ft

Lab Sample ID: 880-24903-8
Matrix: Solid

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		02/20/23 17:00	02/21/23 00:21	1	
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		02/20/23 17:00	02/21/23 00:21	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/21/23 00:21	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	111		70 - 130				02/20/23 17:00	02/21/23 00:21	1	
o-Terphenyl	102		70 - 130				02/20/23 17:00	02/21/23 00:21	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	49.9		5.00		mg/Kg			02/20/23 14:55	1	

Client Sample ID: BH-12
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33
Sample Depth: 4 ft

Lab Sample ID: 880-24903-9
Matrix: Solid

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		02/20/23 12:27	02/20/23 18:23	1	
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/23 12:27	02/20/23 18:23	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/23 12:27	02/20/23 18:23	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/23 12:27	02/20/23 18:23	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/23 12:27	02/20/23 18:23	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/23 12:27	02/20/23 18:23	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				02/20/23 12:27	02/20/23 18:23	1	
1,4-Difluorobenzene (Surr)	85		70 - 130				02/20/23 12:27	02/20/23 18:23	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			02/21/23 16:14	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			02/21/23 14:33	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		02/20/23 17:00	02/21/23 00:41	1	
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		02/20/23 17:00	02/21/23 00:41	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/21/23 00:41	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	113		70 - 130				02/20/23 17:00	02/21/23 00:41	1	
o-Terphenyl	102		70 - 130				02/20/23 17:00	02/21/23 00:41	1	

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-12

Lab Sample ID: 880-24903-9

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.95		mg/Kg			02/20/23 15:01	1

Client Sample ID: BH-13

Lab Sample ID: 880-24903-10

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 18:48	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/20/23 12:27	02/20/23 18:48	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/20/23 12:27	02/20/23 18:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/20/23 12:27	02/20/23 18:48	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/20/23 12:27	02/20/23 18:48	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/20/23 12:27	02/20/23 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130				02/20/23 12:27	02/20/23 18:48	1
1,4-Difluorobenzene (Surr)	85		70 - 130				02/20/23 12:27	02/20/23 18:48	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			02/21/23 16:14	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			02/21/23 14:33	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		02/20/23 17:00	02/21/23 01:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		02/20/23 17:00	02/21/23 01:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 17:00	02/21/23 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				02/20/23 17:00	02/21/23 01:01	1
o-Terphenyl	101		70 - 130				02/20/23 17:00	02/21/23 01:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.1		4.96		mg/Kg			02/20/23 15:06	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-15

Lab Sample ID: 880-24903-11

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 20:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 20:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 20:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/23 12:27	02/20/23 20:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 20:32	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/23 12:27	02/20/23 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	02/20/23 12:27	02/20/23 20:32	1
1,4-Difluorobenzene (Surr)	85		70 - 130	02/20/23 12:27	02/20/23 20:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/21/23 16:14	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			02/21/23 14:33	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		02/20/23 17:00	02/21/23 01:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		02/20/23 17:00	02/21/23 01:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/21/23 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	02/20/23 17:00	02/21/23 01:42	1
o-Terphenyl	102		70 - 130	02/20/23 17:00	02/21/23 01:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103	F1	4.98		mg/Kg			02/20/23 15:12	1

Client Sample ID: BH-17

Lab Sample ID: 880-24903-12

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 20:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 20:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 20:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/23 12:27	02/20/23 20:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 20:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/23 12:27	02/20/23 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	02/20/23 12:27	02/20/23 20:57	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-17

Lab Sample ID: 880-24903-12

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	02/20/23 12:27	02/20/23 20:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/21/23 16:14	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			02/21/23 14:33	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		02/20/23 17:00	02/21/23 02:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		02/20/23 17:00	02/21/23 02:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 17:00	02/21/23 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				02/20/23 17:00	02/21/23 02:02	1
o-Terphenyl	99		70 - 130				02/20/23 17:00	02/21/23 02:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		25.0		mg/Kg			02/20/23 15:29	5

Client Sample ID: BH-19

Lab Sample ID: 880-24903-13

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 21:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 21:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 21:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/23 12:27	02/20/23 21:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 21:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/23 12:27	02/20/23 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	02/20/23 12:27	02/20/23 21:23	1
1,4-Difluorobenzene (Surr)	54	S1-	70 - 130	02/20/23 12:27	02/20/23 21:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/21/23 16:14	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			02/21/23 14:33	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-19

Lab Sample ID: 880-24903-13

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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	-	02/20/23 17:00	02/21/23 02:22	1	
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		02/20/23 17:00	02/21/23 02:22	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 17:00	02/21/23 02:22	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	112		70 - 130				02/20/23 17:00	02/21/23 02:22	1	
o-Terphenyl	101		70 - 130				02/20/23 17:00	02/21/23 02:22	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	220		4.97		mg/Kg	-		02/20/23 15:35	1	

Client Sample ID: BH-21

Lab Sample ID: 880-24903-14

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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	-	02/20/23 12:27	02/20/23 21:49	1	
Toluene	<0.00201	U	0.00201		mg/Kg		02/20/23 12:27	02/20/23 21:49	1	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/20/23 12:27	02/20/23 21:49	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/20/23 12:27	02/20/23 21:49	1	
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/20/23 12:27	02/20/23 21:49	1	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/20/23 12:27	02/20/23 21:49	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130				02/20/23 12:27	02/20/23 21:49	1	
1,4-Difluorobenzene (Surr)	86		70 - 130				02/20/23 12:27	02/20/23 21:49	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	-		02/21/23 16:14	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	-		02/21/23 14:33	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	-	02/20/23 17:00	02/21/23 02:43	1	
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		02/20/23 17:00	02/21/23 02:43	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/21/23 02:43	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	54	S1-	70 - 130				02/20/23 17:00	02/21/23 02:43	1	
o-Terphenyl	103		70 - 130				02/20/23 17:00	02/21/23 02:43	1	

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-21

Lab Sample ID: 880-24903-14

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	332		5.04		mg/Kg			02/20/23 15:52	1

Client Sample ID: BH-26

Lab Sample ID: 880-24903-15

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 22:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 22:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 22:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/23 12:27	02/20/23 22:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 22:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/23 12:27	02/20/23 22:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				02/20/23 12:27	02/20/23 22:15	1
1,4-Difluorobenzene (Surr)	89		70 - 130				02/20/23 12:27	02/20/23 22:15	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			02/21/23 16:14	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			02/21/23 14:33	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		02/20/23 17:00	02/21/23 03:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		02/20/23 17:00	02/21/23 03:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/21/23 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				02/20/23 17:00	02/21/23 03:03	1
o-Terphenyl	97		70 - 130				02/20/23 17:00	02/21/23 03:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	239		4.99		mg/Kg			02/20/23 15:57	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-27

Lab Sample ID: 880-24903-16

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 22:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/23 12:27	02/20/23 22:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/23 12:27	02/20/23 22:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/23 12:27	02/20/23 22:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/23 12:27	02/20/23 22:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/23 12:27	02/20/23 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	02/20/23 12:27	02/20/23 22:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/20/23 12:27	02/20/23 22:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/21/23 16:14	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			02/21/23 14:33	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		02/20/23 17:00	02/21/23 03:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		02/20/23 17:00	02/21/23 03:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 17:00	02/21/23 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	02/20/23 17:00	02/21/23 03:23	1
o-Terphenyl	103		70 - 130	02/20/23 17:00	02/21/23 03:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	411		4.95		mg/Kg			02/20/23 16:03	1

Client Sample ID: BH-28

Lab Sample ID: 880-24903-17

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 23:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/20/23 12:27	02/20/23 23:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/20/23 12:27	02/20/23 23:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/20/23 12:27	02/20/23 23:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/20/23 12:27	02/20/23 23:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/20/23 12:27	02/20/23 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	02/20/23 12:27	02/20/23 23:08	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-28

Lab Sample ID: 880-24903-17

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	02/20/23 12:27	02/20/23 23:08	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			02/21/23 16:14	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			02/21/23 14:33	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		02/20/23 17:00	02/21/23 03:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		02/20/23 17:00	02/21/23 03:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/21/23 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				02/20/23 17:00	02/21/23 03:43	1
o-Terphenyl	101		70 - 130				02/20/23 17:00	02/21/23 03:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		5.05		mg/Kg			02/20/23 16:09	1

Client Sample ID: BH-31

Lab Sample ID: 880-24903-18

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/20/23 23:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 23:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 23:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/23 12:27	02/20/23 23:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 23:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/23 12:27	02/20/23 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	02/20/23 12:27	02/20/23 23:34	1
1,4-Difluorobenzene (Surr)	83		70 - 130	02/20/23 12:27	02/20/23 23:34	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			02/21/23 16:14	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			02/21/23 14:33	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-31
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33
Sample Depth: 4 ft

Lab Sample ID: 880-24903-18
Matrix: Solid

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	-	02/20/23 17:00	02/21/23 04:04	1	
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		02/20/23 17:00	02/21/23 04:04	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/21/23 04:04	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	106		70 - 130				02/20/23 17:00	02/21/23 04:04	1	
o-Terphenyl	94		70 - 130				02/20/23 17:00	02/21/23 04:04	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	127		4.97		mg/Kg	-		02/20/23 16:14	1	

Client Sample ID: BH-33
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33
Sample Depth: 4 ft

Lab Sample ID: 880-24903-19
Matrix: Solid

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	-	02/20/23 12:27	02/20/23 23:59	1	
Toluene	<0.00198	U	0.00198		mg/Kg		02/20/23 12:27	02/20/23 23:59	1	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/20/23 12:27	02/20/23 23:59	1	
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/20/23 12:27	02/20/23 23:59	1	
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/20/23 12:27	02/20/23 23:59	1	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/20/23 12:27	02/20/23 23:59	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130				02/20/23 12:27	02/20/23 23:59	1	
1,4-Difluorobenzene (Surr)	90		70 - 130				02/20/23 12:27	02/20/23 23:59	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00397	U	0.00397		mg/Kg	-		02/21/23 16:14	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	-		02/21/23 14:33	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	-	02/20/23 17:00	02/21/23 04:24	1	
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		02/20/23 17:00	02/21/23 04:24	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 17:00	02/21/23 04:24	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	111		70 - 130				02/20/23 17:00	02/21/23 04:24	1	
o-Terphenyl	98		70 - 130				02/20/23 17:00	02/21/23 04:24	1	

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-33

Lab Sample ID: 880-24903-19

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	246		4.95		mg/Kg			02/20/23 16:20	1

Client Sample ID: BH-34

Lab Sample ID: 880-24903-20

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 12:27	02/21/23 00:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/20/23 12:27	02/21/23 00:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/20/23 12:27	02/21/23 00:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/20/23 12:27	02/21/23 00:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/20/23 12:27	02/21/23 00:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/20/23 12:27	02/21/23 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130				02/20/23 12:27	02/21/23 00:25	1
1,4-Difluorobenzene (Surr)	89		70 - 130				02/20/23 12:27	02/21/23 00:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/21/23 16:14	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			02/21/23 14:33	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		02/20/23 17:00	02/21/23 04:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		02/20/23 17:00	02/21/23 04:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 17:00	02/21/23 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				02/20/23 17:00	02/21/23 04:45	1
o-Terphenyl	97		70 - 130				02/20/23 17:00	02/21/23 04:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		5.00		mg/Kg			02/20/23 16:25	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-41

Lab Sample ID: 880-24903-21

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 04:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/20/23 14:38	02/21/23 04:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/20/23 14:38	02/21/23 04:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/20/23 14:38	02/21/23 04:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/20/23 14:38	02/21/23 04:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/20/23 14:38	02/21/23 04:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	02/20/23 14:38	02/21/23 04:17	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/20/23 14:38	02/21/23 04:17	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			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 16:55	02/21/23 04:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		02/20/23 16:55	02/21/23 04:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 16:55	02/21/23 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	02/20/23 16:55	02/21/23 04:44	1
o-Terphenyl	103		70 - 130	02/20/23 16:55	02/21/23 04:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		5.05		mg/Kg			02/21/23 09:35	1

Client Sample ID: BH-44

Lab Sample ID: 880-24903-22

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 04:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 04:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 04:43	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/20/23 14:38	02/21/23 04:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 04:43	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/20/23 14:38	02/21/23 04:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	02/20/23 14:38	02/21/23 04:43	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-44

Lab Sample ID: 880-24903-22

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	02/20/23 14:38	02/21/23 04:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 16:55	02/21/23 05:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		02/20/23 16:55	02/21/23 05:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/20/23 16:55	02/21/23 05:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				02/20/23 16:55	02/21/23 05:05	1
o-Terphenyl	106		70 - 130				02/20/23 16:55	02/21/23 05:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.9		5.00		mg/Kg			02/21/23 09:52	1

Client Sample ID: BH-46

Lab Sample ID: 880-24903-23

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 05:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/23 14:38	02/21/23 05:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/23 14:38	02/21/23 05:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/23 14:38	02/21/23 05:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/23 14:38	02/21/23 05:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/23 14:38	02/21/23 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	02/20/23 14:38	02/21/23 05:10	1
1,4-Difluorobenzene (Surr)	87		70 - 130	02/20/23 14:38	02/21/23 05:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/21/23 16:14	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			02/21/23 15:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-46

Lab Sample ID: 880-24903-23

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 16:55	02/21/23 05:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		02/20/23 16:55	02/21/23 05:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 16:55	02/21/23 05:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				02/20/23 16:55	02/21/23 05:27	1
o-Terphenyl	122		70 - 130				02/20/23 16:55	02/21/23 05:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.2		4.99		mg/Kg			02/21/23 09:58	1

Client Sample ID: BH-48

Lab Sample ID: 880-24903-24

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 05:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 05:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 05:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/20/23 14:38	02/21/23 05:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 05:36	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/20/23 14:38	02/21/23 05:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				02/20/23 14:38	02/21/23 05:36	1
1,4-Difluorobenzene (Surr)	86		70 - 130				02/20/23 14:38	02/21/23 05:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 16:55	02/21/23 05:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		02/20/23 16:55	02/21/23 05:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 16:55	02/21/23 05:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				02/20/23 16:55	02/21/23 05:48	1
o-Terphenyl	108		70 - 130				02/20/23 16:55	02/21/23 05:48	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-48

Lab Sample ID: 880-24903-24

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		4.95		mg/Kg			02/21/23 10:04	1

Client Sample ID: BH-49

Lab Sample ID: 880-24903-25

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 06:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 06:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 06:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/20/23 14:38	02/21/23 06:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 06:01	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/20/23 14:38	02/21/23 06:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130				02/20/23 14:38	02/21/23 06:01	1
1,4-Difluorobenzene (Surr)	85		70 - 130				02/20/23 14:38	02/21/23 06:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 16:55	02/21/23 06:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		02/20/23 16:55	02/21/23 06:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 16:55	02/21/23 06:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				02/20/23 16:55	02/21/23 06:09	1
o-Terphenyl	106		70 - 130				02/20/23 16:55	02/21/23 06:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	620		4.97		mg/Kg			02/21/23 10:09	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-50

Lab Sample ID: 880-24903-26

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 06:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/23 14:38	02/21/23 06:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/23 14:38	02/21/23 06:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/23 14:38	02/21/23 06:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/23 14:38	02/21/23 06:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/23 14:38	02/21/23 06:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	02/20/23 14:38	02/21/23 06:28	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/20/23 14:38	02/21/23 06:28	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			02/21/23 16:14	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 08:40	02/21/23 13:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 08:40	02/21/23 13:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 08:40	02/21/23 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	02/21/23 08:40	02/21/23 13:07	1
o-Terphenyl	119		70 - 130	02/21/23 08:40	02/21/23 13:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.7		5.05		mg/Kg			02/21/23 10:26	1

Client Sample ID: BH-51

Lab Sample ID: 880-24903-27

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 06:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 06:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 06:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/23 14:38	02/21/23 06:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 06:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/23 14:38	02/21/23 06:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	02/20/23 14:38	02/21/23 06:56	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-51
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33
Sample Depth: 4 ft

Lab Sample ID: 880-24903-27
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)										
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,4-Difluorobenzene (Surr)	89		70 - 130				02/20/23 14:38	02/21/23 06:56	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/21/23 16:14	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 08:40	02/21/23 13:29	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 08:40	02/21/23 13:29	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 08:40	02/21/23 13:29	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	94		70 - 130				02/21/23 08:40	02/21/23 13:29	1	
o-Terphenyl	103		70 - 130				02/21/23 08:40	02/21/23 13:29	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	153		4.97		mg/Kg			02/21/23 10:32	1	

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

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)
880-24903-1	BH-1	137 S1+	82
880-24903-1 MS	BH-1	134 S1+	84
880-24903-1 MSD	BH-1	134 S1+	74
880-24903-2	BH-2	14 S1-	82
880-24903-3	BH-5	132 S1+	86
880-24903-4	BH-6	132 S1+	81
880-24903-5	BH-7	134 S1+	88
880-24903-6	BH-8	132 S1+	84
880-24903-7	BH-9	151 S1+	83
880-24903-8	BH-11	140 S1+	84
880-24903-9	BH-12	138 S1+	85
880-24903-10	BH-13	143 S1+	85
880-24903-11	BH-15	133 S1+	85
880-24903-12	BH-17	150 S1+	82
880-24903-13	BH-19	135 S1+	54 S1-
880-24903-14	BH-21	153 S1+	86
880-24903-15	BH-26	138 S1+	89
880-24903-16	BH-27	139 S1+	93
880-24903-17	BH-28	141 S1+	91
880-24903-18	BH-31	135 S1+	83
880-24903-19	BH-33	160 S1+	90
880-24903-20	BH-34	144 S1+	89
880-24903-21	BH-41	129	79
880-24903-21 MS	BH-41	154 S1+	96
880-24903-21 MSD	BH-41	149 S1+	90
880-24903-22	BH-44	140 S1+	83
880-24903-23	BH-46	147 S1+	87
880-24903-24	BH-48	137 S1+	86
880-24903-25	BH-49	166 S1+	85
880-24903-26	BH-50	144 S1+	86
880-24903-27	BH-51	151 S1+	89
LCS 880-46708/1-A	Lab Control Sample	119	89
LCS 880-46759/1-A	Lab Control Sample	147 S1+	84
LCSD 880-46708/2-A	Lab Control Sample Dup	121	95
LCSD 880-46759/2-A	Lab Control Sample Dup	151 S1+	88
MB 880-46708/5-A	Method Blank	88	80
MB 880-46759/5-A	Method Blank	93	80

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)
880-24903-1	BH-1	110	100
880-24903-1 MS	BH-1	117	95

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Surrogate Summary

Client: GHD Services Inc.

Job ID: 880-24903-1

Project/Site: Doodlebug SWD Release Site

SDG: 12603583

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)
880-24903-1 MSD	BH-1	123	98
880-24903-2	BH-2	110	99
880-24903-3	BH-5	114	103
880-24903-4	BH-6	111	103
880-24903-5	BH-7	113	104
880-24903-6	BH-8	114	104
880-24903-7	BH-9	112	101
880-24903-8	BH-11	111	102
880-24903-9	BH-12	113	102
880-24903-10	BH-13	113	101
880-24903-11	BH-15	114	102
880-24903-12	BH-17	112	99
880-24903-13	BH-19	112	101
880-24903-14	BH-21	54 S1-	103
880-24903-15	BH-26	108	97
880-24903-16	BH-27	115	103
880-24903-17	BH-28	108	101
880-24903-18	BH-31	106	94
880-24903-19	BH-33	111	98
880-24903-20	BH-34	107	97
880-24903-21	BH-41	96	103
880-24903-22	BH-44	101	106
880-24903-23	BH-46	118	122
880-24903-24	BH-48	102	108
880-24903-25	BH-49	102	106
880-24903-26	BH-50	111	119
880-24903-27	BH-51	94	103
LCS 880-46800/2-A	Lab Control Sample	110	113
LCS 880-46801/2-A	Lab Control Sample	113	99
LCS 880-46824/2-A	Lab Control Sample	83	90
LCSD 880-46800/3-A	Lab Control Sample Dup	111	114
LCSD 880-46801/3-A	Lab Control Sample Dup	109	95
LCSD 880-46824/3-A	Lab Control Sample Dup	82	91
MB 880-46800/1-A	Method Blank	0 S1-	0 S1-
MB 880-46801/1-A	Method Blank	118	117
MB 880-46824/1-A	Method Blank	137 S1+	156 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46708/5-A

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46708

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 14:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 14:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 14:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/23 12:27	02/20/23 14:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 14:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/23 12:27	02/20/23 14:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	02/20/23 12:27	02/20/23 14:25	1
1,4-Difluorobenzene (Surr)	80		70 - 130	02/20/23 12:27	02/20/23 14:25	1

Lab Sample ID: LCS 880-46708/1-A

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1110		mg/Kg		111	70 - 130
Toluene	0.100	0.1092		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1070		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2203		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1034		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-46708/2-A

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46708

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1118		mg/Kg		112	70 - 130	1	35
Toluene	0.100	0.1099		mg/Kg		110	70 - 130	1	35
Ethylbenzene	0.100	0.1095		mg/Kg		109	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2212		mg/Kg		111	70 - 130	0	35
o-Xylene	0.100	0.1052		mg/Kg		105	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-24903-1 MS

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: BH-1

Prep Type: Total/NA

Prep Batch: 46708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.1218		mg/Kg		121	70 - 130
Toluene	<0.00202	U	0.101	0.1173		mg/Kg		116	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

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

Lab Sample ID: 880-24903-1 MS

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: BH-1

Prep Type: Total/NA

Prep Batch: 46708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.101	0.1208		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.202	0.2451		mg/Kg		122	70 - 130
o-Xylene	<0.00202	U	0.101	0.1109		mg/Kg		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 880-24903-1 MSD

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: BH-1

Prep Type: Total/NA

Prep Batch: 46708

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0996	0.1181		mg/Kg		119	70 - 130	3	35
Toluene	<0.00202	U	0.0996	0.1170		mg/Kg		117	70 - 130	0	35
Ethylbenzene	<0.00202	U	0.0996	0.1072		mg/Kg		108	70 - 130	12	35
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.199	0.02523	F2 F1	mg/Kg		13	70 - 130	163	35
o-Xylene	<0.00202	U	0.0996	0.1043		mg/Kg		105	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Lab Sample ID: MB 880-46759/5-A

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46759

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 03:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 03:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 03:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/23 14:38	02/21/23 03:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 03:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/23 14:38	02/21/23 03:50	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	02/20/23 14:38	02/21/23 03:50	1
1,4-Difluorobenzene (Surr)	80		70 - 130	02/20/23 14:38	02/21/23 03:50	1

Lab Sample ID: LCS 880-46759/1-A

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07794		mg/Kg		78	70 - 130
Toluene	0.100	0.08130		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.07507		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	0.200	0.1613		mg/Kg		81	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

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

Lab Sample ID: LCS 880-46759/1-A

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08220		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-46759/2-A

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46759

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09401		mg/Kg		94	70 - 130	19	35
Toluene	0.100	0.09087		mg/Kg		91	70 - 130	11	35
Ethylbenzene	0.100	0.09090		mg/Kg		91	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.1868		mg/Kg		93	70 - 130	15	35
o-Xylene	0.100	0.09037		mg/Kg		90	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-24903-21 MS

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: BH-41

Prep Type: Total/NA

Prep Batch: 46759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.1074		mg/Kg		106	70 - 130
Toluene	<0.00201	U	0.101	0.1103		mg/Kg		109	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.1081		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.2189		mg/Kg		108	70 - 130
o-Xylene	<0.00201	U	0.101	0.1065		mg/Kg		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-24903-21 MSD

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: BH-41

Prep Type: Total/NA

Prep Batch: 46759

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.1044		mg/Kg		105	70 - 130	3	35
Toluene	<0.00201	U	0.0990	0.1044		mg/Kg		105	70 - 130	6	35
Ethylbenzene	<0.00201	U	0.0990	0.1040		mg/Kg		105	70 - 130	4	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2117		mg/Kg		107	70 - 130	3	35
o-Xylene	<0.00201	U	0.0990	0.1004		mg/Kg		101	70 - 130	6	35

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

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

Lab Sample ID: 880-24903-21 MSD

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: BH-41

Prep Type: Total/NA

Prep Batch: 46759

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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

Lab Sample ID: MB 880-46800/1-A

Matrix: Solid

Analysis Batch: 46679

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46800

Analyte	MB	MB								
	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/20/23 16:55	02/20/23 21:10	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 16:55	02/20/23 21:10	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 16:55	02/20/23 21:10	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	0	S1-	70 - 130				02/20/23 16:55	02/20/23 21:10	1	
o-Terphenyl	0	S1-	70 - 130				02/20/23 16:55	02/20/23 21:10	1	

Lab Sample ID: LCS 880-46800/2-A

Matrix: Solid

Analysis Batch: 46679

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46800

Analyte	Spike	LCS	LCS							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	941.8		mg/Kg		94		70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1492	*+	mg/Kg		149		70 - 130		
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane		110		70 - 130						
o-Terphenyl		113		70 - 130						

Lab Sample ID: LCSD 880-46800/3-A

Matrix: Solid

Analysis Batch: 46679

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46800

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	886.2		mg/Kg		89		70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1351	*+	mg/Kg		135		70 - 130	10	20
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane		111		70 - 130						
o-Terphenyl		114		70 - 130						

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

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

Lab Sample ID: MB 880-46801/1-A

Matrix: Solid

Analysis Batch: 46675

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46801

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		02/20/23 17:00	02/20/23 20:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 17:00	02/20/23 20:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 17:00	02/20/23 20:16	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				02/20/23 17:00	02/20/23 20:16	1
o-Terphenyl	117		70 - 130				02/20/23 17:00	02/20/23 20:16	1

Lab Sample ID: LCS 880-46801/2-A

Matrix: Solid

Analysis Batch: 46675

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	811.9		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	601.3	*-	mg/Kg		60	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	113		70 - 130				
o-Terphenyl	99		70 - 130				

Lab Sample ID: LCSD 880-46801/3-A

Matrix: Solid

Analysis Batch: 46675

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46801

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	803.9		mg/Kg		80	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	576.7	*-	mg/Kg		58	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	95		70 - 130						

Lab Sample ID: 880-24903-1 MS

Matrix: Solid

Analysis Batch: 46675

Client Sample ID: BH-1

Prep Type: Total/NA

Prep Batch: 46801

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1145		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	55.6	*- F2	999	1161		mg/Kg		111	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

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

Lab Sample ID: 880-24903-1 MS
Matrix: Solid
Analysis Batch: 46675

Client Sample ID: BH-1
Prep Type: Total/NA
Prep Batch: 46801

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-24903-1 MSD
Matrix: Solid
Analysis Batch: 46675

Client Sample ID: BH-1
Prep Type: Total/NA
Prep Batch: 46801

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	1040		mg/Kg		101	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	55.6	*- F2	999	893.2	F2	mg/Kg		84	70 - 130	26	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: MB 880-46824/1-A
Matrix: Solid
Analysis Batch: 46831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46824

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 08:40	02/21/23 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 08:40	02/21/23 08:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 08:40	02/21/23 08:17	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	137	S1+	70 - 130	02/21/23 08:40	02/21/23 08:17	1			
o-Terphenyl	156	S1+	70 - 130	02/21/23 08:40	02/21/23 08:17	1			

Lab Sample ID: LCS 880-46824/2-A
Matrix: Solid
Analysis Batch: 46831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1084		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1170		mg/Kg		117	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	90		70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

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

Lab Sample ID: LCSD 880-46824/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 46831				Prep Batch: 46824							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1130		mg/Kg		113	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1043		mg/Kg		104	70 - 130	12	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	91		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46685/1-A				Client Sample ID: Method Blank							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 46705											
Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			02/20/23 13:36	1		

Lab Sample ID: LCS 880-46685/2-A				Client Sample ID: Lab Control Sample							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 46705											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	240.1		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-46685/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 46705											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	237.7		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-24903-1 MS				Client Sample ID: BH-1							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 46705											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	118		253	393.3		mg/Kg		109	90 - 110		

Lab Sample ID: 880-24903-1 MSD				Client Sample ID: BH-1							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 46705											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	118		253	390.8		mg/Kg		108	90 - 110	1	20

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-24903-11 MS

Matrix: Solid

Analysis Batch: 46705

Client Sample ID: BH-15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	103	F1	249	302.3	F1	mg/Kg		80	90 - 110

Lab Sample ID: 880-24903-11 MSD

Matrix: Solid

Analysis Batch: 46705

Client Sample ID: BH-15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	103	F1	249	344.0		mg/Kg		97	90 - 110	13	20

Lab Sample ID: MB 880-46686/1-A

Matrix: Solid

Analysis Batch: 46706

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			02/21/23 09:18	1

Lab Sample ID: LCS 880-46686/2-A

Matrix: Solid

Analysis Batch: 46706

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.2		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-46686/3-A

Matrix: Solid

Analysis Batch: 46706

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.3		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-24903-21 MS

Matrix: Solid

Analysis Batch: 46706

Client Sample ID: BH-41

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	142		253	414.6		mg/Kg		108	90 - 110

Lab Sample ID: 880-24903-21 MSD

Matrix: Solid

Analysis Batch: 46706

Client Sample ID: BH-41

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	142		253	415.7		mg/Kg		108	90 - 110	0	20

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

GC VOA

Analysis Batch: 46680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-1	BH-1	Total/NA	Solid	8021B	46708
880-24903-2	BH-2	Total/NA	Solid	8021B	46708
880-24903-3	BH-5	Total/NA	Solid	8021B	46708
880-24903-4	BH-6	Total/NA	Solid	8021B	46708
880-24903-5	BH-7	Total/NA	Solid	8021B	46708
880-24903-6	BH-8	Total/NA	Solid	8021B	46708
880-24903-7	BH-9	Total/NA	Solid	8021B	46708
880-24903-8	BH-11	Total/NA	Solid	8021B	46708
880-24903-9	BH-12	Total/NA	Solid	8021B	46708
880-24903-10	BH-13	Total/NA	Solid	8021B	46708
880-24903-11	BH-15	Total/NA	Solid	8021B	46708
880-24903-12	BH-17	Total/NA	Solid	8021B	46708
880-24903-13	BH-19	Total/NA	Solid	8021B	46708
880-24903-14	BH-21	Total/NA	Solid	8021B	46708
880-24903-15	BH-26	Total/NA	Solid	8021B	46708
880-24903-16	BH-27	Total/NA	Solid	8021B	46708
880-24903-17	BH-28	Total/NA	Solid	8021B	46708
880-24903-18	BH-31	Total/NA	Solid	8021B	46708
880-24903-19	BH-33	Total/NA	Solid	8021B	46708
880-24903-20	BH-34	Total/NA	Solid	8021B	46708
880-24903-21	BH-41	Total/NA	Solid	8021B	46759
880-24903-22	BH-44	Total/NA	Solid	8021B	46759
880-24903-23	BH-46	Total/NA	Solid	8021B	46759
880-24903-24	BH-48	Total/NA	Solid	8021B	46759
880-24903-25	BH-49	Total/NA	Solid	8021B	46759
880-24903-26	BH-50	Total/NA	Solid	8021B	46759
880-24903-27	BH-51	Total/NA	Solid	8021B	46759
MB 880-46708/5-A	Method Blank	Total/NA	Solid	8021B	46708
MB 880-46759/5-A	Method Blank	Total/NA	Solid	8021B	46759
LCS 880-46708/1-A	Lab Control Sample	Total/NA	Solid	8021B	46708
LCS 880-46759/1-A	Lab Control Sample	Total/NA	Solid	8021B	46759
LCSD 880-46708/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46708
LCSD 880-46759/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46759
880-24903-1 MS	BH-1	Total/NA	Solid	8021B	46708
880-24903-1 MSD	BH-1	Total/NA	Solid	8021B	46708
880-24903-21 MS	BH-41	Total/NA	Solid	8021B	46759
880-24903-21 MSD	BH-41	Total/NA	Solid	8021B	46759

Prep Batch: 46708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-1	BH-1	Total/NA	Solid	5035	
880-24903-2	BH-2	Total/NA	Solid	5035	
880-24903-3	BH-5	Total/NA	Solid	5035	
880-24903-4	BH-6	Total/NA	Solid	5035	
880-24903-5	BH-7	Total/NA	Solid	5035	
880-24903-6	BH-8	Total/NA	Solid	5035	
880-24903-7	BH-9	Total/NA	Solid	5035	
880-24903-8	BH-11	Total/NA	Solid	5035	
880-24903-9	BH-12	Total/NA	Solid	5035	
880-24903-10	BH-13	Total/NA	Solid	5035	
880-24903-11	BH-15	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

GC VOA (Continued)

Prep Batch: 46708 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-12	BH-17	Total/NA	Solid	5035	
880-24903-13	BH-19	Total/NA	Solid	5035	
880-24903-14	BH-21	Total/NA	Solid	5035	
880-24903-15	BH-26	Total/NA	Solid	5035	
880-24903-16	BH-27	Total/NA	Solid	5035	
880-24903-17	BH-28	Total/NA	Solid	5035	
880-24903-18	BH-31	Total/NA	Solid	5035	
880-24903-19	BH-33	Total/NA	Solid	5035	
880-24903-20	BH-34	Total/NA	Solid	5035	
MB 880-46708/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46708/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46708/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24903-1 MS	BH-1	Total/NA	Solid	5035	
880-24903-1 MSD	BH-1	Total/NA	Solid	5035	

Prep Batch: 46759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-21	BH-41	Total/NA	Solid	5035	
880-24903-22	BH-44	Total/NA	Solid	5035	
880-24903-23	BH-46	Total/NA	Solid	5035	
880-24903-24	BH-48	Total/NA	Solid	5035	
880-24903-25	BH-49	Total/NA	Solid	5035	
880-24903-26	BH-50	Total/NA	Solid	5035	
880-24903-27	BH-51	Total/NA	Solid	5035	
MB 880-46759/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46759/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46759/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24903-21 MS	BH-41	Total/NA	Solid	5035	
880-24903-21 MSD	BH-41	Total/NA	Solid	5035	

Analysis Batch: 46910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-1	BH-1	Total/NA	Solid	Total BTEX	
880-24903-2	BH-2	Total/NA	Solid	Total BTEX	
880-24903-3	BH-5	Total/NA	Solid	Total BTEX	
880-24903-4	BH-6	Total/NA	Solid	Total BTEX	
880-24903-5	BH-7	Total/NA	Solid	Total BTEX	
880-24903-6	BH-8	Total/NA	Solid	Total BTEX	
880-24903-7	BH-9	Total/NA	Solid	Total BTEX	
880-24903-8	BH-11	Total/NA	Solid	Total BTEX	
880-24903-9	BH-12	Total/NA	Solid	Total BTEX	
880-24903-10	BH-13	Total/NA	Solid	Total BTEX	
880-24903-11	BH-15	Total/NA	Solid	Total BTEX	
880-24903-12	BH-17	Total/NA	Solid	Total BTEX	
880-24903-13	BH-19	Total/NA	Solid	Total BTEX	
880-24903-14	BH-21	Total/NA	Solid	Total BTEX	
880-24903-15	BH-26	Total/NA	Solid	Total BTEX	
880-24903-16	BH-27	Total/NA	Solid	Total BTEX	
880-24903-17	BH-28	Total/NA	Solid	Total BTEX	
880-24903-18	BH-31	Total/NA	Solid	Total BTEX	
880-24903-19	BH-33	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

GC VOA (Continued)

Analysis Batch: 46910 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-20	BH-34	Total/NA	Solid	Total BTEX	
880-24903-21	BH-41	Total/NA	Solid	Total BTEX	
880-24903-22	BH-44	Total/NA	Solid	Total BTEX	
880-24903-23	BH-46	Total/NA	Solid	Total BTEX	
880-24903-24	BH-48	Total/NA	Solid	Total BTEX	
880-24903-25	BH-49	Total/NA	Solid	Total BTEX	
880-24903-26	BH-50	Total/NA	Solid	Total BTEX	
880-24903-27	BH-51	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 46675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-1	BH-1	Total/NA	Solid	8015B NM	46801
880-24903-2	BH-2	Total/NA	Solid	8015B NM	46801
880-24903-3	BH-5	Total/NA	Solid	8015B NM	46801
880-24903-4	BH-6	Total/NA	Solid	8015B NM	46801
880-24903-5	BH-7	Total/NA	Solid	8015B NM	46801
880-24903-6	BH-8	Total/NA	Solid	8015B NM	46801
880-24903-7	BH-9	Total/NA	Solid	8015B NM	46801
880-24903-8	BH-11	Total/NA	Solid	8015B NM	46801
880-24903-9	BH-12	Total/NA	Solid	8015B NM	46801
880-24903-10	BH-13	Total/NA	Solid	8015B NM	46801
880-24903-11	BH-15	Total/NA	Solid	8015B NM	46801
880-24903-12	BH-17	Total/NA	Solid	8015B NM	46801
880-24903-13	BH-19	Total/NA	Solid	8015B NM	46801
880-24903-14	BH-21	Total/NA	Solid	8015B NM	46801
880-24903-15	BH-26	Total/NA	Solid	8015B NM	46801
880-24903-16	BH-27	Total/NA	Solid	8015B NM	46801
880-24903-17	BH-28	Total/NA	Solid	8015B NM	46801
880-24903-18	BH-31	Total/NA	Solid	8015B NM	46801
880-24903-19	BH-33	Total/NA	Solid	8015B NM	46801
880-24903-20	BH-34	Total/NA	Solid	8015B NM	46801
MB 880-46801/1-A	Method Blank	Total/NA	Solid	8015B NM	46801
LCS 880-46801/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46801
LCSD 880-46801/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46801
880-24903-1 MS	BH-1	Total/NA	Solid	8015B NM	46801
880-24903-1 MSD	BH-1	Total/NA	Solid	8015B NM	46801

Analysis Batch: 46679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-21	BH-41	Total/NA	Solid	8015B NM	46800
880-24903-22	BH-44	Total/NA	Solid	8015B NM	46800
880-24903-23	BH-46	Total/NA	Solid	8015B NM	46800
880-24903-24	BH-48	Total/NA	Solid	8015B NM	46800
880-24903-25	BH-49	Total/NA	Solid	8015B NM	46800
MB 880-46800/1-A	Method Blank	Total/NA	Solid	8015B NM	46800
LCS 880-46800/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46800
LCSD 880-46800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46800

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

GC Semi VOA

Prep Batch: 46800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-21	BH-41	Total/NA	Solid	8015NM Prep	
880-24903-22	BH-44	Total/NA	Solid	8015NM Prep	
880-24903-23	BH-46	Total/NA	Solid	8015NM Prep	
880-24903-24	BH-48	Total/NA	Solid	8015NM Prep	
880-24903-25	BH-49	Total/NA	Solid	8015NM Prep	
MB 880-46800/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46800/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 46801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-1	BH-1	Total/NA	Solid	8015NM Prep	
880-24903-2	BH-2	Total/NA	Solid	8015NM Prep	
880-24903-3	BH-5	Total/NA	Solid	8015NM Prep	
880-24903-4	BH-6	Total/NA	Solid	8015NM Prep	
880-24903-5	BH-7	Total/NA	Solid	8015NM Prep	
880-24903-6	BH-8	Total/NA	Solid	8015NM Prep	
880-24903-7	BH-9	Total/NA	Solid	8015NM Prep	
880-24903-8	BH-11	Total/NA	Solid	8015NM Prep	
880-24903-9	BH-12	Total/NA	Solid	8015NM Prep	
880-24903-10	BH-13	Total/NA	Solid	8015NM Prep	
880-24903-11	BH-15	Total/NA	Solid	8015NM Prep	
880-24903-12	BH-17	Total/NA	Solid	8015NM Prep	
880-24903-13	BH-19	Total/NA	Solid	8015NM Prep	
880-24903-14	BH-21	Total/NA	Solid	8015NM Prep	
880-24903-15	BH-26	Total/NA	Solid	8015NM Prep	
880-24903-16	BH-27	Total/NA	Solid	8015NM Prep	
880-24903-17	BH-28	Total/NA	Solid	8015NM Prep	
880-24903-18	BH-31	Total/NA	Solid	8015NM Prep	
880-24903-19	BH-33	Total/NA	Solid	8015NM Prep	
880-24903-20	BH-34	Total/NA	Solid	8015NM Prep	
MB 880-46801/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46801/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46801/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24903-1 MS	BH-1	Total/NA	Solid	8015NM Prep	
880-24903-1 MSD	BH-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 46824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-26	BH-50	Total/NA	Solid	8015NM Prep	
880-24903-27	BH-51	Total/NA	Solid	8015NM Prep	
MB 880-46824/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46824/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46824/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-26	BH-50	Total/NA	Solid	8015B NM	46824
880-24903-27	BH-51	Total/NA	Solid	8015B NM	46824
MB 880-46824/1-A	Method Blank	Total/NA	Solid	8015B NM	46824
LCS 880-46824/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46824

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

GC Semi VOA (Continued)

Analysis Batch: 46831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-46824/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46824

Analysis Batch: 46867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-1	BH-1	Total/NA	Solid	8015 NM	
880-24903-2	BH-2	Total/NA	Solid	8015 NM	
880-24903-3	BH-5	Total/NA	Solid	8015 NM	
880-24903-4	BH-6	Total/NA	Solid	8015 NM	
880-24903-5	BH-7	Total/NA	Solid	8015 NM	
880-24903-6	BH-8	Total/NA	Solid	8015 NM	
880-24903-7	BH-9	Total/NA	Solid	8015 NM	
880-24903-8	BH-11	Total/NA	Solid	8015 NM	
880-24903-9	BH-12	Total/NA	Solid	8015 NM	
880-24903-10	BH-13	Total/NA	Solid	8015 NM	
880-24903-11	BH-15	Total/NA	Solid	8015 NM	
880-24903-12	BH-17	Total/NA	Solid	8015 NM	
880-24903-13	BH-19	Total/NA	Solid	8015 NM	
880-24903-14	BH-21	Total/NA	Solid	8015 NM	
880-24903-15	BH-26	Total/NA	Solid	8015 NM	
880-24903-16	BH-27	Total/NA	Solid	8015 NM	
880-24903-17	BH-28	Total/NA	Solid	8015 NM	
880-24903-18	BH-31	Total/NA	Solid	8015 NM	
880-24903-19	BH-33	Total/NA	Solid	8015 NM	
880-24903-20	BH-34	Total/NA	Solid	8015 NM	
880-24903-21	BH-41	Total/NA	Solid	8015 NM	
880-24903-22	BH-44	Total/NA	Solid	8015 NM	
880-24903-23	BH-46	Total/NA	Solid	8015 NM	
880-24903-24	BH-48	Total/NA	Solid	8015 NM	
880-24903-25	BH-49	Total/NA	Solid	8015 NM	
880-24903-26	BH-50	Total/NA	Solid	8015 NM	
880-24903-27	BH-51	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-1	BH-1	Soluble	Solid	DI Leach	
880-24903-2	BH-2	Soluble	Solid	DI Leach	
880-24903-3	BH-5	Soluble	Solid	DI Leach	
880-24903-4	BH-6	Soluble	Solid	DI Leach	
880-24903-5	BH-7	Soluble	Solid	DI Leach	
880-24903-6	BH-8	Soluble	Solid	DI Leach	
880-24903-7	BH-9	Soluble	Solid	DI Leach	
880-24903-8	BH-11	Soluble	Solid	DI Leach	
880-24903-9	BH-12	Soluble	Solid	DI Leach	
880-24903-10	BH-13	Soluble	Solid	DI Leach	
880-24903-11	BH-15	Soluble	Solid	DI Leach	
880-24903-12	BH-17	Soluble	Solid	DI Leach	
880-24903-13	BH-19	Soluble	Solid	DI Leach	
880-24903-14	BH-21	Soluble	Solid	DI Leach	
880-24903-15	BH-26	Soluble	Solid	DI Leach	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

HPLC/IC (Continued)

Leach Batch: 46685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-16	BH-27	Soluble	Solid	DI Leach	
880-24903-17	BH-28	Soluble	Solid	DI Leach	
880-24903-18	BH-31	Soluble	Solid	DI Leach	
880-24903-19	BH-33	Soluble	Solid	DI Leach	
880-24903-20	BH-34	Soluble	Solid	DI Leach	
MB 880-46685/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46685/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46685/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24903-1 MS	BH-1	Soluble	Solid	DI Leach	
880-24903-1 MSD	BH-1	Soluble	Solid	DI Leach	
880-24903-11 MS	BH-15	Soluble	Solid	DI Leach	
880-24903-11 MSD	BH-15	Soluble	Solid	DI Leach	

Leach Batch: 46686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-21	BH-41	Soluble	Solid	DI Leach	
880-24903-22	BH-44	Soluble	Solid	DI Leach	
880-24903-23	BH-46	Soluble	Solid	DI Leach	
880-24903-24	BH-48	Soluble	Solid	DI Leach	
880-24903-25	BH-49	Soluble	Solid	DI Leach	
880-24903-26	BH-50	Soluble	Solid	DI Leach	
880-24903-27	BH-51	Soluble	Solid	DI Leach	
MB 880-46686/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46686/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46686/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24903-21 MS	BH-41	Soluble	Solid	DI Leach	
880-24903-21 MSD	BH-41	Soluble	Solid	DI Leach	

Analysis Batch: 46705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-1	BH-1	Soluble	Solid	300.0	46685
880-24903-2	BH-2	Soluble	Solid	300.0	46685
880-24903-3	BH-5	Soluble	Solid	300.0	46685
880-24903-4	BH-6	Soluble	Solid	300.0	46685
880-24903-5	BH-7	Soluble	Solid	300.0	46685
880-24903-6	BH-8	Soluble	Solid	300.0	46685
880-24903-7	BH-9	Soluble	Solid	300.0	46685
880-24903-8	BH-11	Soluble	Solid	300.0	46685
880-24903-9	BH-12	Soluble	Solid	300.0	46685
880-24903-10	BH-13	Soluble	Solid	300.0	46685
880-24903-11	BH-15	Soluble	Solid	300.0	46685
880-24903-12	BH-17	Soluble	Solid	300.0	46685
880-24903-13	BH-19	Soluble	Solid	300.0	46685
880-24903-14	BH-21	Soluble	Solid	300.0	46685
880-24903-15	BH-26	Soluble	Solid	300.0	46685
880-24903-16	BH-27	Soluble	Solid	300.0	46685
880-24903-17	BH-28	Soluble	Solid	300.0	46685
880-24903-18	BH-31	Soluble	Solid	300.0	46685
880-24903-19	BH-33	Soluble	Solid	300.0	46685
880-24903-20	BH-34	Soluble	Solid	300.0	46685
MB 880-46685/1-A	Method Blank	Soluble	Solid	300.0	46685

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

HPLC/IC (Continued)

Analysis Batch: 46705 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-46685/2-A	Lab Control Sample	Soluble	Solid	300.0	46685
LCSD 880-46685/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46685
880-24903-1 MS	BH-1	Soluble	Solid	300.0	46685
880-24903-1 MSD	BH-1	Soluble	Solid	300.0	46685
880-24903-11 MS	BH-15	Soluble	Solid	300.0	46685
880-24903-11 MSD	BH-15	Soluble	Solid	300.0	46685

Analysis Batch: 46706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24903-21	BH-41	Soluble	Solid	300.0	46686
880-24903-22	BH-44	Soluble	Solid	300.0	46686
880-24903-23	BH-46	Soluble	Solid	300.0	46686
880-24903-24	BH-48	Soluble	Solid	300.0	46686
880-24903-25	BH-49	Soluble	Solid	300.0	46686
880-24903-26	BH-50	Soluble	Solid	300.0	46686
880-24903-27	BH-51	Soluble	Solid	300.0	46686
MB 880-46686/1-A	Method Blank	Soluble	Solid	300.0	46686
LCS 880-46686/2-A	Lab Control Sample	Soluble	Solid	300.0	46686
LCSD 880-46686/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46686
880-24903-21 MS	BH-41	Soluble	Solid	300.0	46686
880-24903-21 MSD	BH-41	Soluble	Solid	300.0	46686

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-1

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 14:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/20/23 21:17	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 13:53	CH	EET MID

Client Sample ID: BH-2

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-2

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			5.03 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 15:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/20/23 22:17	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 14:10	CH	EET MID

Client Sample ID: BH-5

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 15:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/20/23 22:38	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 14:15	CH	EET MID

Client Sample ID: BH-6

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-4

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			4.95 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 16:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-6

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-4

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			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/20/23 22:59	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 14:21	CH	EET MID

Client Sample ID: BH-7

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-5

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	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 16:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/20/23 23:20	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 14:27	CH	EET MID

Client Sample ID: BH-8

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 17:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/20/23 23:41	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 14:44	CH	EET MID

Client Sample ID: BH-9

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 17:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 00:01	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-9
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-7
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	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 14:49	CH	EET MID

Client Sample ID: BH-11
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 17:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 00:21	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 14:55	CH	EET MID

Client Sample ID: BH-12
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-9
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			5.02 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 00:41	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 15:01	CH	EET MID

Client Sample ID: BH-13
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-10
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			5.05 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 18:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 01:01	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 15:06	CH	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-15
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 20:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 01:42	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 15:12	CH	EET MID

Client Sample ID: BH-17
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 20:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 02:02	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		5			46705	02/20/23 15:29	CH	EET MID

Client Sample ID: BH-19
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-13
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			5.00 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 21:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 02:22	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 15:35	CH	EET MID

Client Sample ID: BH-21
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-14
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			4.98 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 21:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-21

Lab Sample ID: 880-24903-14

Date Collected: 02/08/23 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			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 02:43	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 15:52	CH	EET MID

Client Sample ID: BH-26

Lab Sample ID: 880-24903-15

Date Collected: 02/08/23 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	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 22:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 03:03	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 15:57	CH	EET MID

Client Sample ID: BH-27

Lab Sample ID: 880-24903-16

Date Collected: 02/08/23 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	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 22:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 03:23	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 16:03	CH	EET MID

Client Sample ID: BH-28

Lab Sample ID: 880-24903-17

Date Collected: 02/08/23 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	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 23:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 03:43	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-28

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-17

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	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 16:09	CH	EET MID

Client Sample ID: BH-31

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-18

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	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 23:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 04:04	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 16:14	CH	EET MID

Client Sample ID: BH-33

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-19

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			5.04 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/20/23 23:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 04:24	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 16:20	CH	EET MID

Client Sample ID: BH-34

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	46708	02/20/23 12:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 00:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46801	02/20/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46675	02/21/23 04:45	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46685	02/20/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			46705	02/20/23 16:25	CH	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-41

Lab Sample ID: 880-24903-21

Date Collected: 02/08/23 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	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 04:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46800	02/20/23 16:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/21/23 04:44	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 09:35	CH	EET MID

Client Sample ID: BH-44

Lab Sample ID: 880-24903-22

Date Collected: 02/08/23 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	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 04:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46800	02/20/23 16:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/21/23 05:05	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 09:52	CH	EET MID

Client Sample ID: BH-46

Lab Sample ID: 880-24903-23

Date Collected: 02/08/23 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	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 05:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46800	02/20/23 16:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/21/23 05:27	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 09:58	CH	EET MID

Client Sample ID: BH-48

Lab Sample ID: 880-24903-24

Date Collected: 02/08/23 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	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 05:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-48

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46867	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46800	02/20/23 16:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/21/23 05:48	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 10:04	CH	EET MID

Client Sample ID: BH-49

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-25

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	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 06:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46800	02/20/23 16:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/21/23 06:09	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 10:09	CH	EET MID

Client Sample ID: BH-50

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-26

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	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 06:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46824	02/21/23 08:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 13:07	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 10:26	CH	EET MID

Client Sample ID: BH-51

Date Collected: 02/08/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 06:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46910	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46867	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46824	02/21/23 08:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 13:29	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Client Sample ID: BH-51
Date Collected: 02/08/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24903-27
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	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 10:32	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

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: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

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: Doodlebug SWD Release Site

Job ID: 880-24903-1
SDG: 12603583

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-24903-1	BH-1	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-2	BH-2	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-3	BH-5	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-4	BH-6	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-5	BH-7	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-6	BH-8	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-7	BH-9	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-8	BH-11	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-9	BH-12	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-10	BH-13	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-11	BH-15	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-12	BH-17	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-13	BH-19	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-14	BH-21	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-15	BH-26	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-16	BH-27	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-17	BH-28	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-18	BH-31	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-19	BH-33	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-20	BH-34	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-21	BH-41	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-22	BH-44	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-23	BH-46	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-24	BH-48	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-25	BH-49	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-26	BH-50	Solid	02/08/23 00:00	02/17/23 16:33	4 ft
880-24903-27	BH-51	Solid	02/08/23 00:00	02/17/23 16:33	4 ft



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: 24903

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

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:	Doodlebug SWD Release	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes			
Project Number:	12603583	Due Date:	2/21/2023													None NO	DI Water H ₂ O		
Project Location:	Eunice, NM	TAT starts the day received by the lab. If received by 4:30pm														Cool Cool	MeOH Me		
Sampler's Name:	Daniel Sparks															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 Inact	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:		Corrected Temperature														NaOH+Ascorbic Acid SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA 300.0)										Sample Comments	
BH-1	SO		2/8/2023		4ft	Comp 1	X	X	X	X	X	X	X	X	X	Incident ID			
BH-2	SO		2/8/2023		4ft	Comp 1	X	X	X	X	X	X	X	X	X				
BH-5	SO		2/8/2023		4ft	Comp 1	X	X	X	X	X	X	X	X	X	Cost Center			
BH-6	SO		2/8/2023		4ft	Comp 1	X	X	X	X	X	X	X	X	X				
BH-7	SO		2/8/2023		4ft	Comp 1	X	X	X	X	X	X	X	X	X				
BH-8	SO		2/8/2023		4ft	Comp 1	X	X	X	X	X	X	X	X	X	AFE			
BH-9	SO		2/8/2023		4ft	Comp 1	X	X	X	X	X	X	X	X	X				
BH-11	SO		2/8/2023		4ft	Comp 1	X	X	X	X	X	X	X	X	X				
BH-12	SO		2/8/2023		4ft	Comp 1	X	X	X	X	X	X	X	X	X				
BH-13	SO		2/8/2023		4ft	Comp 1	X	X	X	X	X	X	X	X	X				

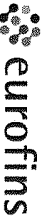


880-24903 Chain of Custody

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 / 2451 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Daniel Sparks		2-17-23/4:33			2
					4
					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: 24903

www.xenco.com Page 2 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

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:	Doodlebug SWD Release	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	12603683				
Project Location:	Eunice, NM	Due Date:	2/12/23		
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:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont	Parameters										Sample Comments
							CHLORIDES (EPA 300.0)	TPH (8015)	BTEX (8021)								
BH-15	SO	2/8/2023		4ft	Comp	1	x	x	x								Incident ID
BH-17	SO	2/8/2023		4ft	Comp	1	x	x	x								
BH-19	SO	2/8/2023		4ft	Comp	1	x	x	x								Cost Center
BH-21	SO	2/8/2023		4ft	Comp	1	x	x	x								
BH-26	SO	2/8/2023		4ft	Comp	1	x	x	x								AEE
BH-27	SO	2/8/2023		4ft	Comp	1	x	x	x								
BH-28	SO	2/8/2023		4ft	Comp	1	x	x	x								
BH-31	SO	2/8/2023		4ft	Comp	1	x	x	x								
BH-33	SO	2/8/2023		4ft	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			

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
D Sparks	[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.:

249103

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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	I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other ☐

Project Name:	Doodlebug SWD Release		Turn Around	
Project Number:	12603563*		☒ Routine	☐ Rush
Project Location:	Eunice, NM		Due Date:	2/12/2013
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
Samples Received In tact:	Yes	No	Thermometer ID:	
Cooler Custody Seals:	Yes	No	Correction Factor:	
Sample Custody Seals:	Yes	No	Temperature Reading:	
Total Containers:			Corrected Temperature:	

ANALYSIS REQUEST										Preservative Codes		
Pres. Code												
										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:
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8RCRA 13PPM Tex

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010

3RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631/2451/7470/7471

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. [Signature]</i>	<i>[Signature]</i>	2 2-17-23/4 23			
3		4			
5		6			

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-24903-1

SDG Number: 12603583

Login Number: 24903

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.
11451 Katy Freeway
Suite 400
Houston, Texas 77079

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JOB DESCRIPTION

Doodlebug SWD Release Site
SDG NUMBER 12603583

JOB NUMBER

880-24904-1

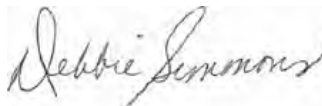
Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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



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2/22/2023 3:40:41 PM

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

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Laboratory Job ID: 880-24904-1
SDG: 12603583

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, 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
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)
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

Case Narrative

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Job ID: 880-24904-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-24904-1

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-78 (880-24904-1), BH-64 (880-24904-2), BH-57 (880-24904-3), BH-99 (880-24904-4), BH-61 (880-24904-5), BH-66 (880-24904-6), BH-100 (880-24904-7), BH-67 (880-24904-8), BH-58 (880-24904-9), BH-93 (880-24904-10), BH-88 (880-24904-11), BH-77 (880-24904-12), BH-54 (880-24904-13), BH-63 (880-24904-14), BH-81 (880-24904-15), BH-55 (880-24904-16), BH-92 (880-24904-17), BH-79 (880-24904-18), BH-59 (880-24904-19), BH-82 (880-24904-20), BH-60 (880-24904-21), BH-94 (880-24904-22), BH-65 (880-24904-23), SW-1 (880-24904-24), SW-2 (880-24904-25), SW-3 (880-24904-26), SW-4 (880-24904-27), SW-5 (880-24904-28), SW-6 (880-24904-29), SW-7 (880-24904-30), SW-8 (880-24904-31), SW-9 (880-24904-32), SW-10 (880-24904-33), SW-11 (880-24904-34), SW-12 (880-24904-35), SW-13 (880-24904-36), SW-14 (880-24904-37), SW-15 (880-24904-38) and SW-16 (880-24904-39).

GC VOA

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-46750 and analytical batch 880-46681 recovered outside control limits for the following analytes: Benzene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-78 (880-24904-1), BH-64 (880-24904-2), BH-57 (880-24904-3), BH-99 (880-24904-4), BH-61 (880-24904-5), BH-66 (880-24904-6), BH-100 (880-24904-7), BH-67 (880-24904-8), BH-58 (880-24904-9), BH-93 (880-24904-10), BH-88 (880-24904-11), BH-77 (880-24904-12), BH-54 (880-24904-13), BH-63 (880-24904-14), BH-81 (880-24904-15), BH-55 (880-24904-16), BH-92 (880-24904-17), BH-79 (880-24904-18), BH-59 (880-24904-19), BH-82 (880-24904-20), (CCV 880-46681/33), (LCS 880-46750/1-A), (LCSD 880-46750/2-A), (MB 880-46750/5-A), (880-24904-A-1-E MS) and (880-24904-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-46792 and analytical batch 880-46819 recovered outside control limits for the following analytes: m-Xylene & p-Xylene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-60 (880-24904-21), BH-94 (880-24904-22), BH-65 (880-24904-23), SW-1 (880-24904-24), SW-2 (880-24904-25), SW-3 (880-24904-26), SW-4 (880-24904-27), SW-5 (880-24904-28), SW-6 (880-24904-29), SW-7 (880-24904-30), SW-8 (880-24904-31), (CCV 880-46680/2), (CCV 880-46680/20), (CCV 880-46680/33), (CCV 880-46680/51), (LCS 880-46759/1-A), (LCSD 880-46759/2-A), (MB 880-46708/5-A), (MB 880-46759/5-A), (880-24903-A-21-F), (880-24903-A-21-D MS) and (880-24903-A-21-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-9 (880-24904-32) and SW-10 (880-24904-33). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46702 and analytical batch 880-46677 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-46703/1-A). Evidence of matrix interferences is not obvious.

Case Narrative

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Job ID: 880-24904-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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 880-46686 and analytical batch 880-46706 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: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-78

Lab Sample ID: 880-24904-1

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 01:20	1
Toluene	<0.00202	U ** F2	0.00202		mg/Kg		02/20/23 14:23	02/21/23 01:20	1
Ethylbenzene	<0.00202	U ** F2	0.00202		mg/Kg		02/20/23 14:23	02/21/23 01:20	1
m-Xylene & p-Xylene	<0.00403	U ** F2	0.00403		mg/Kg		02/20/23 14:23	02/21/23 01:20	1
o-Xylene	<0.00202	U ** F2	0.00202		mg/Kg		02/20/23 14:23	02/21/23 01:20	1
Xylenes, Total	<0.00403	U ** F2	0.00403		mg/Kg		02/20/23 14:23	02/21/23 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	172	S1+	70 - 130	02/20/23 14:23	02/21/23 01:20	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/20/23 14:23	02/21/23 01:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/21/23 16:16	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			02/21/23 15:06	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 *1	50.0		mg/Kg		02/20/23 10:29	02/20/23 11:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 11:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	02/20/23 10:29	02/20/23 11:12	1
o-Terphenyl	100		70 - 130	02/20/23 10:29	02/20/23 11:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		5.00		mg/Kg			02/21/23 10:37	1

Client Sample ID: BH-64

Lab Sample ID: 880-24904-2

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 01:41	1
Toluene	<0.00198	U **	0.00198		mg/Kg		02/20/23 14:23	02/21/23 01:41	1
Ethylbenzene	<0.00198	U **	0.00198		mg/Kg		02/20/23 14:23	02/21/23 01:41	1
m-Xylene & p-Xylene	<0.00396	U **	0.00396		mg/Kg		02/20/23 14:23	02/21/23 01:41	1
o-Xylene	<0.00198	U **	0.00198		mg/Kg		02/20/23 14:23	02/21/23 01:41	1
Xylenes, Total	<0.00396	U **	0.00396		mg/Kg		02/20/23 14:23	02/21/23 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130	02/20/23 14:23	02/21/23 01:41	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-64

Lab Sample ID: 880-24904-2

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	02/20/23 14:23	02/21/23 01:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/21/23 16:16	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			02/21/23 15:06	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 *1	49.9		mg/Kg		02/20/23 10:29	02/20/23 12:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 12:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/20/23 10:29	02/20/23 12:18	1
o-Terphenyl	86		70 - 130				02/20/23 10:29	02/20/23 12:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.8		4.95		mg/Kg			02/21/23 10:43	1

Client Sample ID: BH-57

Lab Sample ID: 880-24904-3

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 02:01	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		02/20/23 14:23	02/21/23 02:01	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		02/20/23 14:23	02/21/23 02:01	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		02/20/23 14:23	02/21/23 02:01	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		02/20/23 14:23	02/21/23 02:01	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		02/20/23 14:23	02/21/23 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130	02/20/23 14:23	02/21/23 02:01	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/20/23 14:23	02/21/23 02:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/21/23 16:16	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			02/21/23 15:06	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-57
Date Collected: 02/15/23 00:00
Date Received: 02/17/23 16:33
Sample Depth: 4 ft

Lab Sample ID: 880-24904-3
Matrix: Solid

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 *1	49.9		mg/Kg		02/20/23 10:29	02/20/23 12:41	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 12:41	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 12:41	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	90		70 - 130				02/20/23 10:29	02/20/23 12:41	1	
o-Terphenyl	86		70 - 130				02/20/23 10:29	02/20/23 12:41	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	181		4.96		mg/Kg			02/21/23 10:49	1	

Client Sample ID: BH-99
Date Collected: 02/15/23 00:00
Date Received: 02/17/23 16:33
Sample Depth: 4 ft

Lab Sample ID: 880-24904-4
Matrix: Solid

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		02/20/23 14:23	02/21/23 02:21	1	
Toluene	<0.00198	U **	0.00198		mg/Kg		02/20/23 14:23	02/21/23 02:21	1	
Ethylbenzene	<0.00198	U **	0.00198		mg/Kg		02/20/23 14:23	02/21/23 02:21	1	
m-Xylene & p-Xylene	<0.00397	U **	0.00397		mg/Kg		02/20/23 14:23	02/21/23 02:21	1	
o-Xylene	<0.00198	U **	0.00198		mg/Kg		02/20/23 14:23	02/21/23 02:21	1	
Xylenes, Total	<0.00397	U **	0.00397		mg/Kg		02/20/23 14:23	02/21/23 02:21	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130				02/20/23 14:23	02/21/23 02:21	1	
1,4-Difluorobenzene (Surr)	101		70 - 130				02/20/23 14:23	02/21/23 02:21	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/21/23 16:16	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			02/21/23 15:06	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 *1	50.0		mg/Kg		02/20/23 10:29	02/20/23 13:03	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 13:03	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 13:03	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	91		70 - 130				02/20/23 10:29	02/20/23 13:03	1	
o-Terphenyl	86		70 - 130				02/20/23 10:29	02/20/23 13:03	1	

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-99

Lab Sample ID: 880-24904-4

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U F1	4.98		mg/Kg			02/21/23 10:54	1

Client Sample ID: BH-61

Lab Sample ID: 880-24904-5

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 02:42	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		02/20/23 14:23	02/21/23 02:42	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		02/20/23 14:23	02/21/23 02:42	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		02/20/23 14:23	02/21/23 02:42	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		02/20/23 14:23	02/21/23 02:42	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		02/20/23 14:23	02/21/23 02:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130				02/20/23 14:23	02/21/23 02:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130				02/20/23 14:23	02/21/23 02:42	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			02/21/23 16:16	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			02/21/23 15:06	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 *1	50.0		mg/Kg		02/20/23 10:29	02/20/23 13:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 13:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				02/20/23 10:29	02/20/23 13:26	1
o-Terphenyl	89		70 - 130				02/20/23 10:29	02/20/23 13:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		5.00		mg/Kg			02/21/23 11:11	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-66

Lab Sample ID: 880-24904-6

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 03:02	1
Toluene	<0.00202	U **	0.00202		mg/Kg		02/20/23 14:23	02/21/23 03:02	1
Ethylbenzene	<0.00202	U **	0.00202		mg/Kg		02/20/23 14:23	02/21/23 03:02	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403		mg/Kg		02/20/23 14:23	02/21/23 03:02	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		02/20/23 14:23	02/21/23 03:02	1
Xylenes, Total	<0.00403	U **	0.00403		mg/Kg		02/20/23 14:23	02/21/23 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	02/20/23 14:23	02/21/23 03:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/20/23 14:23	02/21/23 03:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/21/23 16:16	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			02/21/23 15:06	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 *1	49.9		mg/Kg		02/20/23 10:29	02/20/23 13:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 13:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	02/20/23 10:29	02/20/23 13:48	1
o-Terphenyl	95		70 - 130	02/20/23 10:29	02/20/23 13:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	653		4.97		mg/Kg			02/21/23 11:17	1

Client Sample ID: BH-100

Lab Sample ID: 880-24904-7

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 03:23	1
Toluene	<0.00199	U **	0.00199		mg/Kg		02/20/23 14:23	02/21/23 03:23	1
Ethylbenzene	<0.00199	U **	0.00199		mg/Kg		02/20/23 14:23	02/21/23 03:23	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		02/20/23 14:23	02/21/23 03:23	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		02/20/23 14:23	02/21/23 03:23	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		02/20/23 14:23	02/21/23 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	171	S1+	70 - 130	02/20/23 14:23	02/21/23 03:23	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-100

Lab Sample ID: 880-24904-7

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	02/20/23 14:23	02/21/23 03:23	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			02/21/23 16:16	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			02/21/23 15:06	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 *1	50.0		mg/Kg		02/20/23 10:29	02/20/23 14:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 14:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				02/20/23 10:29	02/20/23 14:10	1
o-Terphenyl	92		70 - 130				02/20/23 10:29	02/20/23 14:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	378		5.04		mg/Kg			02/21/23 11:34	1

Client Sample ID: BH-67

Lab Sample ID: 880-24904-8

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 03:43	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		02/20/23 14:23	02/21/23 03:43	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		02/20/23 14:23	02/21/23 03:43	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		02/20/23 14:23	02/21/23 03:43	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		02/20/23 14:23	02/21/23 03:43	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		02/20/23 14:23	02/21/23 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130				02/20/23 14:23	02/21/23 03:43	1
1,4-Difluorobenzene (Surr)	101		70 - 130				02/20/23 14:23	02/21/23 03:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/21/23 16:16	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			02/21/23 15:06	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-67
Date Collected: 02/15/23 00:00
Date Received: 02/17/23 16:33
Sample Depth: 4 ft

Lab Sample ID: 880-24904-8
Matrix: Solid

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 *1	49.9		mg/Kg		02/20/23 10:29	02/20/23 14:32	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 14:32	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 14:32	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	88		70 - 130				02/20/23 10:29	02/20/23 14:32	1	
o-Terphenyl	83		70 - 130				02/20/23 10:29	02/20/23 14:32	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	185		4.99		mg/Kg			02/21/23 11:40	1	

Client Sample ID: BH-58
Date Collected: 02/15/23 00:00
Date Received: 02/17/23 16:33
Sample Depth: 4 ft

Lab Sample ID: 880-24904-9
Matrix: Solid

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		02/20/23 14:23	02/21/23 04:03	1	
Toluene	<0.00198	U **	0.00198		mg/Kg		02/20/23 14:23	02/21/23 04:03	1	
Ethylbenzene	<0.00198	U **	0.00198		mg/Kg		02/20/23 14:23	02/21/23 04:03	1	
m-Xylene & p-Xylene	<0.00396	U **	0.00396		mg/Kg		02/20/23 14:23	02/21/23 04:03	1	
o-Xylene	<0.00198	U **	0.00198		mg/Kg		02/20/23 14:23	02/21/23 04:03	1	
Xylenes, Total	<0.00396	U **	0.00396		mg/Kg		02/20/23 14:23	02/21/23 04:03	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130				02/20/23 14:23	02/21/23 04:03	1	
1,4-Difluorobenzene (Surr)	98		70 - 130				02/20/23 14:23	02/21/23 04:03	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			02/21/23 16:16	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			02/21/23 15:06	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 *1	49.9		mg/Kg		02/20/23 10:29	02/20/23 14:54	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 14:54	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 14:54	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	106		70 - 130				02/20/23 10:29	02/20/23 14:54	1	
o-Terphenyl	98		70 - 130				02/20/23 10:29	02/20/23 14:54	1	

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-58

Lab Sample ID: 880-24904-9

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		4.95		mg/Kg			02/21/23 11:45	1

Client Sample ID: BH-93

Lab Sample ID: 880-24904-10

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 04:24	1
Toluene	<0.00200	U *	0.00200		mg/Kg		02/20/23 14:23	02/21/23 04:24	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		02/20/23 14:23	02/21/23 04:24	1
m-Xylene & p-Xylene	<0.00400	U *	0.00400		mg/Kg		02/20/23 14:23	02/21/23 04:24	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		02/20/23 14:23	02/21/23 04:24	1
Xylenes, Total	<0.00400	U *	0.00400		mg/Kg		02/20/23 14:23	02/21/23 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130				02/20/23 14:23	02/21/23 04:24	1
1,4-Difluorobenzene (Surr)	99		70 - 130				02/20/23 14:23	02/21/23 04:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/21/23 16:16	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			02/21/23 15:06	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 *1	50.0		mg/Kg		02/20/23 10:29	02/20/23 15:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 15:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				02/20/23 10:29	02/20/23 15:16	1
o-Terphenyl	94		70 - 130				02/20/23 10:29	02/20/23 15:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.6		5.05		mg/Kg			02/21/23 11:51	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-88

Lab Sample ID: 880-24904-11

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 06:14	1
Toluene	<0.00202	U **	0.00202		mg/Kg		02/20/23 14:23	02/21/23 06:14	1
Ethylbenzene	<0.00202	U **	0.00202		mg/Kg		02/20/23 14:23	02/21/23 06:14	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403		mg/Kg		02/20/23 14:23	02/21/23 06:14	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		02/20/23 14:23	02/21/23 06:14	1
Xylenes, Total	<0.00403	U **	0.00403		mg/Kg		02/20/23 14:23	02/21/23 06:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130	02/20/23 14:23	02/21/23 06:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/20/23 14:23	02/21/23 06:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/21/23 16:16	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			02/21/23 15:06	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 *1	49.9		mg/Kg		02/20/23 10:29	02/20/23 16:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 16:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	02/20/23 10:29	02/20/23 16:52	1
o-Terphenyl	91		70 - 130	02/20/23 10:29	02/20/23 16:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1290		4.97		mg/Kg			02/21/23 11:57	1

Client Sample ID: BH-77

Lab Sample ID: 880-24904-12

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 06:34	1
Toluene	<0.00199	U **	0.00199		mg/Kg		02/20/23 14:23	02/21/23 06:34	1
Ethylbenzene	<0.00199	U **	0.00199		mg/Kg		02/20/23 14:23	02/21/23 06:34	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		02/20/23 14:23	02/21/23 06:34	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		02/20/23 14:23	02/21/23 06:34	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		02/20/23 14:23	02/21/23 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130	02/20/23 14:23	02/21/23 06:34	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-77

Lab Sample ID: 880-24904-12

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	02/20/23 14:23	02/21/23 06:34	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			02/21/23 16:16	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			02/21/23 15:06	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 *1	49.9		mg/Kg		02/20/23 10:29	02/20/23 17:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 17:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				02/20/23 10:29	02/20/23 17:36	1
o-Terphenyl	90		70 - 130				02/20/23 10:29	02/20/23 17:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		4.95		mg/Kg			02/21/23 12:02	1

Client Sample ID: BH-54

Lab Sample ID: 880-24904-13

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 06:54	1
Toluene	<0.00201	U **	0.00201		mg/Kg		02/20/23 14:23	02/21/23 06:54	1
Ethylbenzene	<0.00201	U **	0.00201		mg/Kg		02/20/23 14:23	02/21/23 06:54	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		02/20/23 14:23	02/21/23 06:54	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		02/20/23 14:23	02/21/23 06:54	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		02/20/23 14:23	02/21/23 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130	02/20/23 14:23	02/21/23 06:54	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/20/23 14:23	02/21/23 06:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/21/23 16:16	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			02/21/23 15:06	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-54

Lab Sample ID: 880-24904-13

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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 *1	50.0		mg/Kg		02/20/23 10:29	02/20/23 17:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 17:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				02/20/23 10:29	02/20/23 17:57	1
o-Terphenyl	82		70 - 130				02/20/23 10:29	02/20/23 17:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		5.00		mg/Kg			02/21/23 12:08	1

Client Sample ID: BH-63

Lab Sample ID: 880-24904-14

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 07:15	1
Toluene	<0.00200	U **	0.00200		mg/Kg		02/20/23 14:23	02/21/23 07:15	1
Ethylbenzene	<0.00200	U **	0.00200		mg/Kg		02/20/23 14:23	02/21/23 07:15	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		02/20/23 14:23	02/21/23 07:15	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		02/20/23 14:23	02/21/23 07:15	1
Xylenes, Total	<0.00401	U **	0.00401		mg/Kg		02/20/23 14:23	02/21/23 07:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130				02/20/23 14:23	02/21/23 07:15	1
1,4-Difluorobenzene (Surr)	104		70 - 130				02/20/23 14:23	02/21/23 07:15	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			02/21/23 16:16	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			02/21/23 15:06	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 *1	49.9		mg/Kg		02/20/23 10:29	02/20/23 18:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 18:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				02/20/23 10:29	02/20/23 18:19	1
o-Terphenyl	93		70 - 130				02/20/23 10:29	02/20/23 18:19	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-63

Lab Sample ID: 880-24904-14

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.3		5.02		mg/Kg			02/20/23 13:15	1

Client Sample ID: BH-81

Lab Sample ID: 880-24904-15

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 07:35	1
Toluene	<0.00200	U *	0.00200		mg/Kg		02/20/23 14:23	02/21/23 07:35	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		02/20/23 14:23	02/21/23 07:35	1
m-Xylene & p-Xylene	<0.00399	U *	0.00399		mg/Kg		02/20/23 14:23	02/21/23 07:35	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		02/20/23 14:23	02/21/23 07:35	1
Xylenes, Total	<0.00399	U *	0.00399		mg/Kg		02/20/23 14:23	02/21/23 07:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130				02/20/23 14:23	02/21/23 07:35	1
1,4-Difluorobenzene (Surr)	97		70 - 130				02/20/23 14:23	02/21/23 07:35	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			02/21/23 16:16	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			02/21/23 15:06	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 *1	50.0		mg/Kg		02/20/23 10:29	02/20/23 18:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 18:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				02/20/23 10:29	02/20/23 18:40	1
o-Terphenyl	95		70 - 130				02/20/23 10:29	02/20/23 18:40	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			02/20/23 13:34	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-55

Lab Sample ID: 880-24904-16

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 07:56	1
Toluene	<0.00202	U **	0.00202		mg/Kg		02/20/23 14:23	02/21/23 07:56	1
Ethylbenzene	<0.00202	U **	0.00202		mg/Kg		02/20/23 14:23	02/21/23 07:56	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404		mg/Kg		02/20/23 14:23	02/21/23 07:56	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		02/20/23 14:23	02/21/23 07:56	1
Xylenes, Total	<0.00404	U **	0.00404		mg/Kg		02/20/23 14:23	02/21/23 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130	02/20/23 14:23	02/21/23 07:56	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/20/23 14:23	02/21/23 07:56	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			02/21/23 16:16	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			02/21/23 15:06	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 *1	49.9		mg/Kg		02/20/23 10:29	02/20/23 19:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 19:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	02/20/23 10:29	02/20/23 19:01	1
o-Terphenyl	84		70 - 130	02/20/23 10:29	02/20/23 19:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		4.99		mg/Kg			02/20/23 13:40	1

Client Sample ID: BH-92

Lab Sample ID: 880-24904-17

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 08:16	1
Toluene	<0.00201	U **	0.00201		mg/Kg		02/20/23 14:23	02/21/23 08:16	1
Ethylbenzene	<0.00201	U **	0.00201		mg/Kg		02/20/23 14:23	02/21/23 08:16	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		02/20/23 14:23	02/21/23 08:16	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		02/20/23 14:23	02/21/23 08:16	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		02/20/23 14:23	02/21/23 08:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	02/20/23 14:23	02/21/23 08:16	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-92

Lab Sample ID: 880-24904-17

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	02/20/23 14:23	02/21/23 08:16	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			02/21/23 16:16	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			02/21/23 15:06	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 *1	50.0		mg/Kg		02/20/23 10:29	02/20/23 19:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 19:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				02/20/23 10:29	02/20/23 19:22	1
o-Terphenyl	95		70 - 130				02/20/23 10:29	02/20/23 19:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	313		5.05		mg/Kg			02/20/23 13:46	1

Client Sample ID: BH-79

Lab Sample ID: 880-24904-18

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 08:37	1
Toluene	<0.00198	U **	0.00198		mg/Kg		02/20/23 14:23	02/21/23 08:37	1
Ethylbenzene	<0.00198	U **	0.00198		mg/Kg		02/20/23 14:23	02/21/23 08:37	1
m-Xylene & p-Xylene	<0.00397	U **	0.00397		mg/Kg		02/20/23 14:23	02/21/23 08:37	1
o-Xylene	<0.00198	U **	0.00198		mg/Kg		02/20/23 14:23	02/21/23 08:37	1
Xylenes, Total	<0.00397	U **	0.00397		mg/Kg		02/20/23 14:23	02/21/23 08:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130	02/20/23 14:23	02/21/23 08:37	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/20/23 14:23	02/21/23 08:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/21/23 16:16	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			02/21/23 15:06	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-79

Lab Sample ID: 880-24904-18

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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 *1	50.0		mg/Kg		02/20/23 10:29	02/20/23 19:44	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 19:44	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 19:44	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	89		70 - 130				02/20/23 10:29	02/20/23 19:44	1	
o-Terphenyl	82		70 - 130				02/20/23 10:29	02/20/23 19:44	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	153		5.04		mg/Kg			02/20/23 13:52	1	

Client Sample ID: BH-59

Lab Sample ID: 880-24904-19

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 08:57	1	
Toluene	<0.00199	U **	0.00199		mg/Kg		02/20/23 14:23	02/21/23 08:57	1	
Ethylbenzene	<0.00199	U **	0.00199		mg/Kg		02/20/23 14:23	02/21/23 08:57	1	
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		02/20/23 14:23	02/21/23 08:57	1	
o-Xylene	<0.00199	U **	0.00199		mg/Kg		02/20/23 14:23	02/21/23 08:57	1	
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		02/20/23 14:23	02/21/23 08:57	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130				02/20/23 14:23	02/21/23 08:57	1	
1,4-Difluorobenzene (Surr)	103		70 - 130				02/20/23 14:23	02/21/23 08:57	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			02/21/23 16:16	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			02/21/23 15:06	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 *1	50.0		mg/Kg		02/20/23 10:29	02/20/23 20:05	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 20:05	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 20:05	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	105		70 - 130				02/20/23 10:29	02/20/23 20:05	1	
o-Terphenyl	95		70 - 130				02/20/23 10:29	02/20/23 20:05	1	

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-59

Lab Sample ID: 880-24904-19

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.7		5.00		mg/Kg			02/20/23 14:11	1

Client Sample ID: BH-82

Lab Sample ID: 880-24904-20

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:23	02/21/23 09:18	1
Toluene	<0.00200	U *	0.00200		mg/Kg		02/20/23 14:23	02/21/23 09:18	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		02/20/23 14:23	02/21/23 09:18	1
m-Xylene & p-Xylene	<0.00400	U *	0.00400		mg/Kg		02/20/23 14:23	02/21/23 09:18	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		02/20/23 14:23	02/21/23 09:18	1
Xylenes, Total	<0.00400	U *	0.00400		mg/Kg		02/20/23 14:23	02/21/23 09:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130				02/20/23 14:23	02/21/23 09:18	1
1,4-Difluorobenzene (Surr)	100		70 - 130				02/20/23 14:23	02/21/23 09:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/21/23 16:16	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			02/21/23 15:06	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 *1	49.9		mg/Kg		02/20/23 10:29	02/20/23 20:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 20:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:29	02/20/23 20:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				02/20/23 10:29	02/20/23 20:27	1
o-Terphenyl	96		70 - 130				02/20/23 10:29	02/20/23 20:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		5.00		mg/Kg			02/20/23 14:17	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-60

Lab Sample ID: 880-24904-21

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 07:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 07:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 07:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/20/23 14:38	02/21/23 07:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 07:23	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/20/23 14:38	02/21/23 07:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	02/20/23 14:38	02/21/23 07:23	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/20/23 14:38	02/21/23 07:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 11:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 11:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	02/20/23 10:33	02/20/23 11:12	1
o-Terphenyl	120		70 - 130	02/20/23 10:33	02/20/23 11:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.6		5.03		mg/Kg			02/20/23 14:23	1

Client Sample ID: BH-94

Lab Sample ID: 880-24904-22

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 07:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 07:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 07:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/23 14:38	02/21/23 07:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 07:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/23 14:38	02/21/23 07:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	02/20/23 14:38	02/21/23 07:50	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-94

Lab Sample ID: 880-24904-22

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	02/20/23 14:38	02/21/23 07:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 12:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 12:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				02/20/23 10:33	02/20/23 12:18	1
o-Terphenyl	91		70 - 130				02/20/23 10:33	02/20/23 12:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		5.02		mg/Kg			02/20/23 14:30	1

Client Sample ID: BH-65

Lab Sample ID: 880-24904-23

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 08:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 08:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 08:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/23 14:38	02/21/23 08:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 08:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/23 14:38	02/21/23 08:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	02/20/23 14:38	02/21/23 08:17	1
1,4-Difluorobenzene (Surr)	81		70 - 130	02/20/23 14:38	02/21/23 08:17	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			02/21/23 16:14	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			02/21/23 15:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-65

Lab Sample ID: 880-24904-23

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 10:33	02/20/23 12:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 12:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				02/20/23 10:33	02/20/23 12:41	1
o-Terphenyl	105		70 - 130				02/20/23 10:33	02/20/23 12:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.7		4.98		mg/Kg			02/20/23 14:36	1

Client Sample ID: SW-1

Lab Sample ID: 880-24904-24

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 10:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/20/23 14:38	02/21/23 10:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/20/23 14:38	02/21/23 10:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/20/23 14:38	02/21/23 10:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/20/23 14:38	02/21/23 10:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/20/23 14:38	02/21/23 10:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130				02/20/23 14:38	02/21/23 10:03	1
1,4-Difluorobenzene (Surr)	84		70 - 130				02/20/23 14:38	02/21/23 10:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 13:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 13:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				02/20/23 10:33	02/20/23 13:03	1
o-Terphenyl	88		70 - 130				02/20/23 10:33	02/20/23 13:03	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-1

Lab Sample ID: 880-24904-24

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	413		4.96		mg/Kg			02/20/23 14:42	1

Client Sample ID: SW-2

Lab Sample ID: 880-24904-25

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 10:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 10:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 10:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/23 14:38	02/21/23 10:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 10:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/23 14:38	02/21/23 10:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130				02/20/23 14:38	02/21/23 10:29	1
1,4-Difluorobenzene (Surr)	84		70 - 130				02/20/23 14:38	02/21/23 10:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 13:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 13:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				02/20/23 10:33	02/20/23 13:26	1
o-Terphenyl	109		70 - 130				02/20/23 10:33	02/20/23 13:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193		4.96		mg/Kg			02/20/23 15:01	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-3

Lab Sample ID: 880-24904-26

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 10:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 10:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 10:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/23 14:38	02/21/23 10:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 10:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/23 14:38	02/21/23 10:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	02/20/23 14:38	02/21/23 10:56	1
1,4-Difluorobenzene (Surr)	77		70 - 130	02/20/23 14:38	02/21/23 10:56	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			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 13:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 13:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	02/20/23 10:33	02/20/23 13:48	1
o-Terphenyl	111		70 - 130	02/20/23 10:33	02/20/23 13:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.7		4.97		mg/Kg			02/20/23 15:07	1

Client Sample ID: SW-4

Lab Sample ID: 880-24904-27

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 11:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/20/23 14:38	02/21/23 11:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/20/23 14:38	02/21/23 11:22	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/20/23 14:38	02/21/23 11:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/20/23 14:38	02/21/23 11:22	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/20/23 14:38	02/21/23 11:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130	02/20/23 14:38	02/21/23 11:22	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-4

Lab Sample ID: 880-24904-27

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	75		70 - 130	02/20/23 14:38	02/21/23 11:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 14:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 14:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				02/20/23 10:33	02/20/23 14:10	1
o-Terphenyl	95		70 - 130				02/20/23 10:33	02/20/23 14:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		5.03		mg/Kg			02/20/23 15:25	1

Client Sample ID: SW-5

Lab Sample ID: 880-24904-28

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 11:48	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/20/23 14:38	02/21/23 11:48	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/20/23 14:38	02/21/23 11:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/20/23 14:38	02/21/23 11:48	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/20/23 14:38	02/21/23 11:48	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/20/23 14:38	02/21/23 11:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130	02/20/23 14:38	02/21/23 11:48	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/20/23 14:38	02/21/23 11:48	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			02/21/23 16:14	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			02/21/23 15:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-5

Lab Sample ID: 880-24904-28

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 10:33	02/20/23 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 14:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				02/20/23 10:33	02/20/23 14:32	1
o-Terphenyl	88		70 - 130				02/20/23 10:33	02/20/23 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	284		5.00		mg/Kg			02/20/23 15:32	1

Client Sample ID: SW-6

Lab Sample ID: 880-24904-29

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 12:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 12:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 12:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/23 14:38	02/21/23 12:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 12:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/23 14:38	02/21/23 12:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130				02/20/23 14:38	02/21/23 12:14	1
1,4-Difluorobenzene (Surr)	86		70 - 130				02/20/23 14:38	02/21/23 12:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 14:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 14:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				02/20/23 10:33	02/20/23 14:54	1
o-Terphenyl	88		70 - 130				02/20/23 10:33	02/20/23 14:54	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-6

Lab Sample ID: 880-24904-29

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.4		4.98		mg/Kg			02/20/23 15:38	1

Client Sample ID: SW-7

Lab Sample ID: 880-24904-30

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 12:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 12:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 12:41	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/20/23 14:38	02/21/23 12:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:38	02/21/23 12:41	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/20/23 14:38	02/21/23 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	170	S1+	70 - 130				02/20/23 14:38	02/21/23 12:41	1
1,4-Difluorobenzene (Surr)	79		70 - 130				02/20/23 14:38	02/21/23 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	<0.00404	U	0.00404		mg/Kg			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 15:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 15:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				02/20/23 10:33	02/20/23 15:16	1
o-Terphenyl	87		70 - 130				02/20/23 10:33	02/20/23 15:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		4.97		mg/Kg			02/20/23 15:44	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-8

Lab Sample ID: 880-24904-31

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 13:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/20/23 14:38	02/21/23 13:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/20/23 14:38	02/21/23 13:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/20/23 14:38	02/21/23 13:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/20/23 14:38	02/21/23 13:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/20/23 14:38	02/21/23 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	184	S1+	70 - 130	02/20/23 14:38	02/21/23 13:07	1
1,4-Difluorobenzene (Surr)	80		70 - 130	02/20/23 14:38	02/21/23 13:07	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			02/21/23 16:14	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 16:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 16:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	02/20/23 10:33	02/20/23 16:52	1
o-Terphenyl	104		70 - 130	02/20/23 10:33	02/20/23 16:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		5.02		mg/Kg			02/20/23 15:50	1

Client Sample ID: SW-9

Lab Sample ID: 880-24904-32

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 13:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 13:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 13:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/23 14:38	02/21/23 13:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 13:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/23 14:38	02/21/23 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130	02/20/23 14:38	02/21/23 13:34	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-9

Lab Sample ID: 880-24904-32

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	84		70 - 130	02/20/23 14:38	02/21/23 13:34	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			02/21/23 16:50	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 17:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 17:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				02/20/23 10:33	02/20/23 17:36	1
o-Terphenyl	93		70 - 130				02/20/23 10:33	02/20/23 17:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4410		50.1		mg/Kg			02/20/23 15:56	10

Client Sample ID: SW-10

Lab Sample ID: 880-24904-33

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:38	02/21/23 14:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/23 14:38	02/21/23 14:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/23 14:38	02/21/23 14:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/23 14:38	02/21/23 14:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/23 14:38	02/21/23 14:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/23 14:38	02/21/23 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130	02/20/23 14:38	02/21/23 14:00	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/20/23 14:38	02/21/23 14:00	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			02/21/23 16:50	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			02/21/23 15:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-10

Lab Sample ID: 880-24904-33

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 10:33	02/20/23 17:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 17:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				02/20/23 10:33	02/20/23 17:57	1
o-Terphenyl	96		70 - 130				02/20/23 10:33	02/20/23 17:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13600		99.6		mg/Kg			02/20/23 16:02	20

Client Sample ID: SW-11

Lab Sample ID: 880-24904-34

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:50	02/21/23 06:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/20/23 14:50	02/21/23 06:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/20/23 14:50	02/21/23 06:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/20/23 14:50	02/21/23 06:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/20/23 14:50	02/21/23 06:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/20/23 14:50	02/21/23 06:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				02/20/23 14:50	02/21/23 06:24	1
1,4-Difluorobenzene (Surr)	82		70 - 130				02/20/23 14:50	02/21/23 06:24	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			02/21/23 16:09	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 18:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 18:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				02/20/23 10:33	02/20/23 18:19	1
o-Terphenyl	107		70 - 130				02/20/23 10:33	02/20/23 18:19	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-11

Lab Sample ID: 880-24904-34

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1900		24.9		mg/Kg			02/20/23 18:42	5

Client Sample ID: SW-12

Lab Sample ID: 880-24904-35

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 14:50	02/21/23 06:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:50	02/21/23 06:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:50	02/21/23 06:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/20/23 14:50	02/21/23 06:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/20/23 14:50	02/21/23 06:45	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/20/23 14:50	02/21/23 06:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				02/20/23 14:50	02/21/23 06:45	1
1,4-Difluorobenzene (Surr)	95		70 - 130				02/20/23 14:50	02/21/23 06:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/21/23 16:09	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 18:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 18:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/20/23 10:33	02/20/23 18:40	1
o-Terphenyl	99		70 - 130				02/20/23 10:33	02/20/23 18:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11800		101		mg/Kg			02/20/23 19:01	20

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-13

Lab Sample ID: 880-24904-36

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 15:19	02/21/23 11:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/20/23 15:19	02/21/23 11:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/20/23 15:19	02/21/23 11:41	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404		mg/Kg		02/20/23 15:19	02/21/23 11:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/20/23 15:19	02/21/23 11:41	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/20/23 15:19	02/21/23 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	02/20/23 15:19	02/21/23 11:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/20/23 15:19	02/21/23 11:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/21/23 16:11	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 19:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 19:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	02/20/23 10:33	02/20/23 19:01	1
o-Terphenyl	99		70 - 130	02/20/23 10:33	02/20/23 19:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	278		5.00		mg/Kg			02/20/23 19:07	1

Client Sample ID: SW-14

Lab Sample ID: 880-24904-37

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 15:19	02/21/23 12:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/20/23 15:19	02/21/23 12:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/20/23 15:19	02/21/23 12:01	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		02/20/23 15:19	02/21/23 12:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/20/23 15:19	02/21/23 12:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/20/23 15:19	02/21/23 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	02/20/23 15:19	02/21/23 12:01	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-14

Lab Sample ID: 880-24904-37

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	02/20/23 15:19	02/21/23 12:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/21/23 16:11	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 19:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 19:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				02/20/23 10:33	02/20/23 19:22	1
o-Terphenyl	115		70 - 130				02/20/23 10:33	02/20/23 19:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		4.98		mg/Kg			02/20/23 19:13	1

Client Sample ID: SW-15

Lab Sample ID: 880-24904-38

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 15:19	02/21/23 12:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/23 15:19	02/21/23 12:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/23 15:19	02/21/23 12:22	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		02/20/23 15:19	02/21/23 12:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/23 15:19	02/21/23 12:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/23 15:19	02/21/23 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	02/20/23 15:19	02/21/23 12:22	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/20/23 15:19	02/21/23 12:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/21/23 16:11	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			02/21/23 15:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-15

Lab Sample ID: 880-24904-38

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 10:33	02/20/23 19:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 19:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/23 10:33	02/20/23 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				02/20/23 10:33	02/20/23 19:44	1
o-Terphenyl	98		70 - 130				02/20/23 10:33	02/20/23 19:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.7		4.97		mg/Kg			02/20/23 19:20	1

Client Sample ID: SW-16

Lab Sample ID: 880-24904-39

Date Collected: 02/15/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Sample Depth: 4 ft

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		02/20/23 15:19	02/21/23 12:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/23 15:19	02/21/23 12:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/23 15:19	02/21/23 12:42	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		02/20/23 15:19	02/21/23 12:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/23 15:19	02/21/23 12:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/23 15:19	02/21/23 12:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				02/20/23 15:19	02/21/23 12:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130				02/20/23 15:19	02/21/23 12:42	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			02/21/23 16:11	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 20:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 20:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	0	S1-	70 - 130				02/20/23 10:33	02/20/23 20:05	1
o-Terphenyl	0	S1-	70 - 130				02/20/23 10:33	02/20/23 20:05	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-16
Date Collected: 02/15/23 00:00
Date Received: 02/17/23 16:33
Sample Depth: 4 ft

Lab Sample ID: 880-24904-39
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	481		5.02		mg/Kg			02/20/23 19:26	1

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

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

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)
880-24332-A-5 MB	Method Blank	141 S1+	99
880-24332-A-7 MB	Method Blank	111	83
880-24904-1	BH-78	172 S1+	99
880-24904-1 MS	BH-78	146 S1+	102
880-24904-1 MSD	BH-78	152 S1+	101
880-24904-2	BH-64	163 S1+	98
880-24904-3	BH-57	164 S1+	100
880-24904-4	BH-99	161 S1+	101
880-24904-5	BH-61	167 S1+	102
880-24904-6	BH-66	154 S1+	96
880-24904-7	BH-100	171 S1+	100
880-24904-8	BH-67	168 S1+	101
880-24904-9	BH-58	161 S1+	98
880-24904-10	BH-93	162 S1+	99
880-24904-11	BH-88	182 S1+	100
880-24904-12	BH-77	163 S1+	99
880-24904-13	BH-54	159 S1+	101
880-24904-14	BH-63	162 S1+	104
880-24904-15	BH-81	163 S1+	97
880-24904-16	BH-55	164 S1+	101
880-24904-17	BH-92	167 S1+	100
880-24904-18	BH-79	164 S1+	100
880-24904-19	BH-59	169 S1+	103
880-24904-20	BH-82	164 S1+	100
880-24904-21	BH-60	144 S1+	88
880-24904-22	BH-94	149 S1+	87
880-24904-23	BH-65	144 S1+	81
880-24904-24	SW-1	144 S1+	84
880-24904-25	SW-2	144 S1+	84
880-24904-26	SW-3	149 S1+	77
880-24904-27	SW-4	169 S1+	75
880-24904-28	SW-5	159 S1+	79
880-24904-29	SW-6	155 S1+	86
880-24904-30	SW-7	170 S1+	79
880-24904-31	SW-8	184 S1+	80
880-24904-32	SW-9	168 S1+	84
880-24904-33	SW-10	179 S1+	94
880-24904-34	SW-11	121	82
880-24904-35	SW-12	96	95
880-24904-36	SW-13	87	93
880-24904-36 MS	SW-13	123	115
880-24904-36 MSD	SW-13	124	106
880-24904-37	SW-14	96	93
880-24904-38	SW-15	93	96
880-24904-39	SW-16	90	88
LCS 880-46750/1-A	Lab Control Sample	148 S1+	101
LCS 880-46759/1-A	Lab Control Sample	147 S1+	84
LCS 880-46773/1-A	Lab Control Sample	103	112
LCS 880-46792/1-A	Lab Control Sample	115	114

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Surrogate Summary

Client: GHD Services Inc.

Job ID: 880-24904-1

Project/Site: Doodlebug SWD Release Site

SDG: 12603583

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 880-46750/2-A	Lab Control Sample Dup	145 S1+	103
LCSD 880-46759/2-A	Lab Control Sample Dup	151 S1+	88
LCSD 880-46773/2-A	Lab Control Sample Dup	108	114
LCSD 880-46792/2-A	Lab Control Sample Dup	116	118
MB 880-46708/5-A	Method Blank	88	80
MB 880-46750/5-A	Method Blank	150 S1+	96
MB 880-46759/5-A	Method Blank	93	80
MB 880-46773/5-A	Method Blank	78	86
MB 880-46792/5-A	Method Blank	77	92
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)
880-24904-1	BH-78	113	100
880-24904-1 MS	BH-78	87	76
880-24904-1 MSD	BH-78	87	77
880-24904-2	BH-64	92	86
880-24904-3	BH-57	90	86
880-24904-4	BH-99	91	86
880-24904-5	BH-61	97	89
880-24904-6	BH-66	100	95
880-24904-7	BH-100	104	92
880-24904-8	BH-67	88	83
880-24904-9	BH-58	106	98
880-24904-10	BH-93	105	94
880-24904-11	BH-88	102	91
880-24904-12	BH-77	99	90
880-24904-13	BH-54	88	82
880-24904-14	BH-63	102	93
880-24904-15	BH-81	104	95
880-24904-16	BH-55	90	84
880-24904-17	BH-92	102	95
880-24904-18	BH-79	89	82
880-24904-19	BH-59	105	95
880-24904-20	BH-82	107	96
880-24904-21	BH-60	113	120
880-24904-21 MS	BH-60	124	113
880-24904-21 MSD	BH-60	103	97
880-24904-22	BH-94	88	91
880-24904-23	BH-65	102	105
880-24904-24	SW-1	83	88
880-24904-25	SW-2	107	109
880-24904-26	SW-3	106	111
880-24904-27	SW-4	89	95

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Surrogate Summary

Client: GHD Services Inc.

Job ID: 880-24904-1

Project/Site: Doodlebug SWD Release Site

SDG: 12603583

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)
880-24904-28	SW-5	85	88
880-24904-29	SW-6	83	88
880-24904-30	SW-7	85	87
880-24904-31	SW-8	100	104
880-24904-32	SW-9	86	93
880-24904-33	SW-10	90	96
880-24904-34	SW-11	106	107
880-24904-35	SW-12	92	99
880-24904-36	SW-13	96	99
880-24904-37	SW-14	110	115
880-24904-38	SW-15	93	98
880-24904-39	SW-16	0 S1-	0 S1-
LCS 880-46702/2-A	Lab Control Sample	105	102
LCS 880-46703/2-A	Lab Control Sample	102	110
LCSD 880-46702/3-A	Lab Control Sample Dup	100	91
LCSD 880-46703/3-A	Lab Control Sample Dup	118	126
MB 880-46702/1-A	Method Blank	97	100
MB 880-46703/1-A	Method Blank	132 S1+	148 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-24332-A-5 MB

Matrix: Solid

Analysis Batch: 46681

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			02/20/23 18:39	1
Toluene	<0.00200	U	0.00200		mg/Kg			02/20/23 18:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			02/20/23 18:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			02/20/23 18:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			02/20/23 18:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			02/20/23 18:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130		02/20/23 18:39	1
1,4-Difluorobenzene (Surr)	99		70 - 130		02/20/23 18:39	1

Lab Sample ID: 880-24332-A-7 MB

Matrix: Solid

Analysis Batch: 46682

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			02/20/23 17:08	1
Toluene	<0.00200	U	0.00200		mg/Kg			02/20/23 17:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			02/20/23 17:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			02/20/23 17:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			02/20/23 17:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			02/20/23 17:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130		02/20/23 17:08	1
1,4-Difluorobenzene (Surr)	83		70 - 130		02/20/23 17:08	1

Lab Sample ID: MB 880-46708/5-A

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46708

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 14:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 14:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 14:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/23 12:27	02/20/23 14:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 12:27	02/20/23 14:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/23 12:27	02/20/23 14:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	02/20/23 12:27	02/20/23 14:25	1
1,4-Difluorobenzene (Surr)	80		70 - 130	02/20/23 12:27	02/20/23 14:25	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

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

Lab Sample ID: MB 880-46750/5-A

Matrix: Solid

Analysis Batch: 46681

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46750

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:23	02/21/23 00:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:23	02/21/23 00:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:23	02/21/23 00:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/23 14:23	02/21/23 00:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:23	02/21/23 00:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/23 14:23	02/21/23 00:52	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	02/20/23 14:23	02/21/23 00:52	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/20/23 14:23	02/21/23 00:52	1

Lab Sample ID: LCS 880-46750/1-A

Matrix: Solid

Analysis Batch: 46681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46750

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Benzene	0.100	0.1326	*+	mg/Kg		133	70 - 130
Toluene	0.100	0.1304		mg/Kg		130	70 - 130
Ethylbenzene	0.100	0.1310	*+	mg/Kg		131	70 - 130
m-Xylene & p-Xylene	0.200	0.2775	*+	mg/Kg		139	70 - 130
o-Xylene	0.100	0.1345	*+	mg/Kg		135	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-46750/2-A

Matrix: Solid

Analysis Batch: 46681

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46750

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Benzene	0.100	0.1414	*+	mg/Kg		141	70 - 130	6	35
Toluene	0.100	0.1348	*+	mg/Kg		135	70 - 130	3	35
Ethylbenzene	0.100	0.1334	*+	mg/Kg		133	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2797	*+	mg/Kg		140	70 - 130	1	35
o-Xylene	0.100	0.1371	*+	mg/Kg		137	70 - 130	2	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-24904-1 MS

Matrix: Solid

Analysis Batch: 46681

Client Sample ID: BH-78

Prep Type: Total/NA

Prep Batch: 46750

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				Limits
Benzene	<0.00202	U *+	0.101	0.1179		mg/Kg		117	70 - 130
Toluene	<0.00202	U *+ F2	0.101	0.1153		mg/Kg		114	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

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

Lab Sample ID: 880-24904-1 MS

Matrix: Solid

Analysis Batch: 46681

Client Sample ID: BH-78

Prep Type: Total/NA

Prep Batch: 46750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U *+ F2	0.101	0.1174		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	<0.00403	U *+ F2	0.202	0.2481		mg/Kg		123	70 - 130
o-Xylene	<0.00202	U *+ F2	0.101	0.1199		mg/Kg		118	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: 880-24904-1 MSD

Matrix: Solid

Analysis Batch: 46681

Client Sample ID: BH-78

Prep Type: Total/NA

Prep Batch: 46750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U *+	0.0996	0.08294		mg/Kg		83	70 - 130	35	35
Toluene	<0.00202	U *+ F2	0.0996	0.07927	F2	mg/Kg		80	70 - 130	37	35
Ethylbenzene	<0.00202	U *+ F2	0.0996	0.07817	F2	mg/Kg		78	70 - 130	40	35
m-Xylene & p-Xylene	<0.00403	U *+ F2	0.199	0.1648	F2	mg/Kg		83	70 - 130	40	35
o-Xylene	<0.00202	U *+ F2	0.0996	0.07981	F2	mg/Kg		80	70 - 130	40	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

Lab Sample ID: MB 880-46759/5-A

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46759

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 03:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 03:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 03:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/23 14:38	02/21/23 03:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:38	02/21/23 03:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/23 14:38	02/21/23 03:50	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				02/20/23 14:38	02/21/23 03:50	1
1,4-Difluorobenzene (Surr)	80		70 - 130				02/20/23 14:38	02/21/23 03:50	1

Lab Sample ID: LCS 880-46759/1-A

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07794		mg/Kg		78	70 - 130
Toluene	0.100	0.08130		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.07507		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	0.200	0.1613		mg/Kg		81	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

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

Lab Sample ID: LCS 880-46759/1-A

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08220		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-46759/2-A

Matrix: Solid

Analysis Batch: 46680

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46759

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09401		mg/Kg		94	70 - 130	19	35
Toluene	0.100	0.09087		mg/Kg		91	70 - 130	11	35
Ethylbenzene	0.100	0.09090		mg/Kg		91	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.1868		mg/Kg		93	70 - 130	15	35
o-Xylene	0.100	0.09037		mg/Kg		90	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-46773/5-A

Matrix: Solid

Analysis Batch: 46682

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46773

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:50	02/20/23 22:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:50	02/20/23 22:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:50	02/20/23 22:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/23 14:50	02/20/23 22:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 14:50	02/20/23 22:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/23 14:50	02/20/23 22:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	02/20/23 14:50	02/20/23 22:53	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/20/23 14:50	02/20/23 22:53	1

Lab Sample ID: LCS 880-46773/1-A

Matrix: Solid

Analysis Batch: 46682

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08555		mg/Kg		86	70 - 130
Toluene	0.100	0.08755		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08892		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1916		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09722		mg/Kg		97	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

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

Lab Sample ID: LCS 880-46773/1-A
Matrix: Solid
Analysis Batch: 46682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46773

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-46773/2-A
Matrix: Solid
Analysis Batch: 46682

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46773

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09166		mg/Kg		92	70 - 130	7	35
Toluene	0.100	0.09572		mg/Kg		96	70 - 130	9	35
Ethylbenzene	0.100	0.09940		mg/Kg		99	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2164		mg/Kg		108	70 - 130	12	35
o-Xylene	0.100	0.1089		mg/Kg		109	70 - 130	11	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: MB 880-46792/5-A
Matrix: Solid
Analysis Batch: 46819

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46792

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/23 15:19	02/21/23 11:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/23 15:19	02/21/23 11:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/23 15:19	02/21/23 11:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/23 15:19	02/21/23 11:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/23 15:19	02/21/23 11:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/23 15:19	02/21/23 11:19	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				02/20/23 15:19	02/21/23 11:19	1
1,4-Difluorobenzene (Surr)	92		70 - 130				02/20/23 15:19	02/21/23 11:19	1

Lab Sample ID: LCS 880-46792/1-A
Matrix: Solid
Analysis Batch: 46819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1177		mg/Kg		118	70 - 130
Toluene	0.100	0.1077		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1126		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2444		mg/Kg		122	70 - 130
o-Xylene	0.100	0.1212		mg/Kg		121	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

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

Lab Sample ID: LCS 880-46792/1-A

Matrix: Solid

Analysis Batch: 46819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46792

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: LCSD 880-46792/2-A

Matrix: Solid

Analysis Batch: 46819

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46792

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	3	35
Toluene	0.100	0.1128		mg/Kg		113	70 - 130	5	35
Ethylbenzene	0.100	0.1203		mg/Kg		120	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2615	*+	mg/Kg		131	70 - 130	7	35
o-Xylene	0.100	0.1296		mg/Kg		130	70 - 130	7	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-24904-36 MS

Matrix: Solid

Analysis Batch: 46819

Client Sample ID: SW-13

Prep Type: Total/NA

Prep Batch: 46792

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.1096		mg/Kg		109	70 - 130
Toluene	<0.00202	U	0.101	0.1065		mg/Kg		106	70 - 130
Ethylbenzene	<0.00202	U	0.101	0.1136		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	<0.00404	U *+	0.202	0.2443		mg/Kg		121	70 - 130
o-Xylene	<0.00202	U	0.101	0.1206		mg/Kg		120	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 880-24904-36 MSD

Matrix: Solid

Analysis Batch: 46819

Client Sample ID: SW-13

Prep Type: Total/NA

Prep Batch: 46792

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0996	0.1076		mg/Kg		108	70 - 130	2	35
Toluene	<0.00202	U	0.0996	0.1009		mg/Kg		101	70 - 130	5	35
Ethylbenzene	<0.00202	U	0.0996	0.1110		mg/Kg		111	70 - 130	2	35
m-Xylene & p-Xylene	<0.00404	U *+	0.199	0.2349		mg/Kg		118	70 - 130	4	35
o-Xylene	<0.00202	U	0.0996	0.1157		mg/Kg		116	70 - 130	4	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

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

Lab Sample ID: MB 880-46702/1-A
Matrix: Solid
Analysis Batch: 46677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46702

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		02/20/23 10:29	02/20/23 08:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 08:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:29	02/20/23 08:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				02/20/23 10:29	02/20/23 08:34	1
o-Terphenyl	100		70 - 130				02/20/23 10:29	02/20/23 08:34	1

Lab Sample ID: LCS 880-46702/2-A
Matrix: Solid
Analysis Batch: 46677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1007		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1022		mg/Kg		102	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	105		70 - 130				
o-Terphenyl	102		70 - 130				

Lab Sample ID: LCSD 880-46702/3-A
Matrix: Solid
Analysis Batch: 46677

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46702

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	812.2	*1	mg/Kg		81	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	1000	837.6		mg/Kg		84	70 - 130	20	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
o-Terphenyl	91		70 - 130						

Lab Sample ID: 880-24904-1 MS
Matrix: Solid
Analysis Batch: 46677

Client Sample ID: BH-78
Prep Type: Total/NA
Prep Batch: 46702

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	998	1011		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	853.2		mg/Kg		85	70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

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

Lab Sample ID: 880-24904-1 MS

Matrix: Solid

Analysis Batch: 46677

Client Sample ID: BH-78

Prep Type: Total/NA

Prep Batch: 46702

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 880-24904-1 MSD

Matrix: Solid

Analysis Batch: 46677

Client Sample ID: BH-78

Prep Type: Total/NA

Prep Batch: 46702

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 *1	997	997.5		mg/Kg		97	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	869.2		mg/Kg		87	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	77		70 - 130								

Lab Sample ID: MB 880-46703/1-A

Matrix: Solid

Analysis Batch: 46679

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46703

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		02/20/23 10:33	02/20/23 08:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 08:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 08:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				02/20/23 10:33	02/20/23 08:34	1
o-Terphenyl	148	S1+	70 - 130				02/20/23 10:33	02/20/23 08:34	1

Lab Sample ID: LCS 880-46703/2-A

Matrix: Solid

Analysis Batch: 46679

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	912.2		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	818.3		mg/Kg		82	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	102		70 - 130				
o-Terphenyl	110		70 - 130				

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

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

Lab Sample ID: LCSD 880-46703/3-A
Matrix: Solid
Analysis Batch: 46679

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	851.5		mg/Kg		85	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	928.4		mg/Kg		93	70 - 130	13	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	118		70 - 130						
o-Terphenyl	126		70 - 130						

Lab Sample ID: 880-24904-21 MS
Matrix: Solid
Analysis Batch: 46679

Client Sample ID: BH-60
Prep Type: Total/NA
Prep Batch: 46703

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	1257		mg/Kg		122	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1286		mg/Kg		129	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	124		70 - 130								
o-Terphenyl	113		70 - 130								

Lab Sample ID: 880-24904-21 MSD
Matrix: Solid
Analysis Batch: 46679

Client Sample ID: BH-60
Prep Type: Total/NA
Prep Batch: 46703

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	997	1128		mg/Kg		110	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1117		mg/Kg		112	70 - 130	14	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	97		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46686/1-A
Matrix: Solid
Analysis Batch: 46706

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			02/21/23 09:18	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-46686/2-A
Matrix: Solid
Analysis Batch: 46706

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.2		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-46686/3-A
Matrix: Solid
Analysis Batch: 46706

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.3		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-24904-4 MS
Matrix: Solid
Analysis Batch: 46706

Client Sample ID: BH-99
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<4.98	U F1	249	432.2	F1	mg/Kg		174	90 - 110

Lab Sample ID: 880-24904-4 MSD
Matrix: Solid
Analysis Batch: 46706

Client Sample ID: BH-99
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<4.98	U F1	249	431.6	F1	mg/Kg		173	90 - 110	0	20

Lab Sample ID: MB 880-46687/1-A
Matrix: Solid
Analysis Batch: 46707

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			02/20/23 12:57	1

Lab Sample ID: LCS 880-46687/2-A
Matrix: Solid
Analysis Batch: 46707

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	232.7		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-46687/3-A
Matrix: Solid
Analysis Batch: 46707

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	230.9		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 880-24904-14 MS
Matrix: Solid
Analysis Batch: 46707

Client Sample ID: BH-63
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	53.3		251	319.8		mg/Kg		106	90 - 110

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-24904-14 MSD Matrix: Solid Analysis Batch: 46707										Client Sample ID: BH-63 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	53.3		251	319.1		mg/Kg		106	90 - 110	0	20	
Lab Sample ID: 880-24904-24 MS Matrix: Solid Analysis Batch: 46707										Client Sample ID: SW-1 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	413		248	654.7		mg/Kg		97	90 - 110			
Lab Sample ID: 880-24904-24 MSD Matrix: Solid Analysis Batch: 46707										Client Sample ID: SW-1 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	413		248	683.2		mg/Kg		109	90 - 110	4	20	
Lab Sample ID: MB 880-46688/1-A Matrix: Solid Analysis Batch: 46720										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			02/20/23 16:33	1			
Lab Sample ID: LCS 880-46688/2-A Matrix: Solid Analysis Batch: 46720										Client Sample ID: Lab Control Sample Prep Type: Soluble		
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride			250	235.3		mg/Kg		94	90 - 110			
Lab Sample ID: LCSD 880-46688/3-A Matrix: Solid Analysis Batch: 46720										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	235.4		mg/Kg		94	90 - 110	0	20	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

GC VOA

Analysis Batch: 46680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-21	BH-60	Total/NA	Solid	8021B	46759
880-24904-22	BH-94	Total/NA	Solid	8021B	46759
880-24904-23	BH-65	Total/NA	Solid	8021B	46759
880-24904-24	SW-1	Total/NA	Solid	8021B	46759
880-24904-25	SW-2	Total/NA	Solid	8021B	46759
880-24904-26	SW-3	Total/NA	Solid	8021B	46759
880-24904-27	SW-4	Total/NA	Solid	8021B	46759
880-24904-28	SW-5	Total/NA	Solid	8021B	46759
880-24904-29	SW-6	Total/NA	Solid	8021B	46759
880-24904-30	SW-7	Total/NA	Solid	8021B	46759
880-24904-31	SW-8	Total/NA	Solid	8021B	46759
880-24904-32	SW-9	Total/NA	Solid	8021B	46759
880-24904-33	SW-10	Total/NA	Solid	8021B	46759
MB 880-46708/5-A	Method Blank	Total/NA	Solid	8021B	46708
MB 880-46759/5-A	Method Blank	Total/NA	Solid	8021B	46759
LCS 880-46759/1-A	Lab Control Sample	Total/NA	Solid	8021B	46759
LCSD 880-46759/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46759

Analysis Batch: 46681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-1	BH-78	Total/NA	Solid	8021B	46750
880-24904-2	BH-64	Total/NA	Solid	8021B	46750
880-24904-3	BH-57	Total/NA	Solid	8021B	46750
880-24904-4	BH-99	Total/NA	Solid	8021B	46750
880-24904-5	BH-61	Total/NA	Solid	8021B	46750
880-24904-6	BH-66	Total/NA	Solid	8021B	46750
880-24904-7	BH-100	Total/NA	Solid	8021B	46750
880-24904-8	BH-67	Total/NA	Solid	8021B	46750
880-24904-9	BH-58	Total/NA	Solid	8021B	46750
880-24904-10	BH-93	Total/NA	Solid	8021B	46750
880-24904-11	BH-88	Total/NA	Solid	8021B	46750
880-24904-12	BH-77	Total/NA	Solid	8021B	46750
880-24904-13	BH-54	Total/NA	Solid	8021B	46750
880-24904-14	BH-63	Total/NA	Solid	8021B	46750
880-24904-15	BH-81	Total/NA	Solid	8021B	46750
880-24904-16	BH-55	Total/NA	Solid	8021B	46750
880-24904-17	BH-92	Total/NA	Solid	8021B	46750
880-24904-18	BH-79	Total/NA	Solid	8021B	46750
880-24904-19	BH-59	Total/NA	Solid	8021B	46750
880-24904-20	BH-82	Total/NA	Solid	8021B	46750
880-24332-A-5 MB	Method Blank	Total/NA	Solid	8021B	
MB 880-46750/5-A	Method Blank	Total/NA	Solid	8021B	46750
LCS 880-46750/1-A	Lab Control Sample	Total/NA	Solid	8021B	46750
LCSD 880-46750/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46750
880-24904-1 MS	BH-78	Total/NA	Solid	8021B	46750
880-24904-1 MSD	BH-78	Total/NA	Solid	8021B	46750

Analysis Batch: 46682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-34	SW-11	Total/NA	Solid	8021B	46773
880-24904-35	SW-12	Total/NA	Solid	8021B	46773

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

GC VOA (Continued)

Analysis Batch: 46682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24332-A-7 MB	Method Blank	Total/NA	Solid	8021B	
MB 880-46773/5-A	Method Blank	Total/NA	Solid	8021B	46773
LCS 880-46773/1-A	Lab Control Sample	Total/NA	Solid	8021B	46773
LCSD 880-46773/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46773

Prep Batch: 46708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46708/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 46750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-1	BH-78	Total/NA	Solid	5035	
880-24904-2	BH-64	Total/NA	Solid	5035	
880-24904-3	BH-57	Total/NA	Solid	5035	
880-24904-4	BH-99	Total/NA	Solid	5035	
880-24904-5	BH-61	Total/NA	Solid	5035	
880-24904-6	BH-66	Total/NA	Solid	5035	
880-24904-7	BH-100	Total/NA	Solid	5035	
880-24904-8	BH-67	Total/NA	Solid	5035	
880-24904-9	BH-58	Total/NA	Solid	5035	
880-24904-10	BH-93	Total/NA	Solid	5035	
880-24904-11	BH-88	Total/NA	Solid	5035	
880-24904-12	BH-77	Total/NA	Solid	5035	
880-24904-13	BH-54	Total/NA	Solid	5035	
880-24904-14	BH-63	Total/NA	Solid	5035	
880-24904-15	BH-81	Total/NA	Solid	5035	
880-24904-16	BH-55	Total/NA	Solid	5035	
880-24904-17	BH-92	Total/NA	Solid	5035	
880-24904-18	BH-79	Total/NA	Solid	5035	
880-24904-19	BH-59	Total/NA	Solid	5035	
880-24904-20	BH-82	Total/NA	Solid	5035	
MB 880-46750/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46750/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46750/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24904-1 MS	BH-78	Total/NA	Solid	5035	
880-24904-1 MSD	BH-78	Total/NA	Solid	5035	

Prep Batch: 46759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-21	BH-60	Total/NA	Solid	5035	
880-24904-22	BH-94	Total/NA	Solid	5035	
880-24904-23	BH-65	Total/NA	Solid	5035	
880-24904-24	SW-1	Total/NA	Solid	5035	
880-24904-25	SW-2	Total/NA	Solid	5035	
880-24904-26	SW-3	Total/NA	Solid	5035	
880-24904-27	SW-4	Total/NA	Solid	5035	
880-24904-28	SW-5	Total/NA	Solid	5035	
880-24904-29	SW-6	Total/NA	Solid	5035	
880-24904-30	SW-7	Total/NA	Solid	5035	
880-24904-31	SW-8	Total/NA	Solid	5035	
880-24904-32	SW-9	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

GC VOA (Continued)

Prep Batch: 46759 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-33	SW-10	Total/NA	Solid	5035	
MB 880-46759/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46759/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46759/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 46773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-34	SW-11	Total/NA	Solid	5035	
880-24904-35	SW-12	Total/NA	Solid	5035	
MB 880-46773/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46773/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46773/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 46792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-36	SW-13	Total/NA	Solid	5035	
880-24904-37	SW-14	Total/NA	Solid	5035	
880-24904-38	SW-15	Total/NA	Solid	5035	
880-24904-39	SW-16	Total/NA	Solid	5035	
MB 880-46792/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46792/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46792/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24904-36 MS	SW-13	Total/NA	Solid	5035	
880-24904-36 MSD	SW-13	Total/NA	Solid	5035	

Analysis Batch: 46819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-36	SW-13	Total/NA	Solid	8021B	46792
880-24904-37	SW-14	Total/NA	Solid	8021B	46792
880-24904-38	SW-15	Total/NA	Solid	8021B	46792
880-24904-39	SW-16	Total/NA	Solid	8021B	46792
MB 880-46792/5-A	Method Blank	Total/NA	Solid	8021B	46792
LCS 880-46792/1-A	Lab Control Sample	Total/NA	Solid	8021B	46792
LCSD 880-46792/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46792
880-24904-36 MS	SW-13	Total/NA	Solid	8021B	46792
880-24904-36 MSD	SW-13	Total/NA	Solid	8021B	46792

Analysis Batch: 46906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-1	BH-78	Total/NA	Solid	Total BTEX	
880-24904-2	BH-64	Total/NA	Solid	Total BTEX	
880-24904-3	BH-57	Total/NA	Solid	Total BTEX	
880-24904-4	BH-99	Total/NA	Solid	Total BTEX	
880-24904-5	BH-61	Total/NA	Solid	Total BTEX	
880-24904-6	BH-66	Total/NA	Solid	Total BTEX	
880-24904-7	BH-100	Total/NA	Solid	Total BTEX	
880-24904-8	BH-67	Total/NA	Solid	Total BTEX	
880-24904-9	BH-58	Total/NA	Solid	Total BTEX	
880-24904-10	BH-93	Total/NA	Solid	Total BTEX	
880-24904-11	BH-88	Total/NA	Solid	Total BTEX	
880-24904-12	BH-77	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

GC VOA (Continued)

Analysis Batch: 46906 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-13	BH-54	Total/NA	Solid	Total BTEX	
880-24904-14	BH-63	Total/NA	Solid	Total BTEX	
880-24904-15	BH-81	Total/NA	Solid	Total BTEX	
880-24904-16	BH-55	Total/NA	Solid	Total BTEX	
880-24904-17	BH-92	Total/NA	Solid	Total BTEX	
880-24904-18	BH-79	Total/NA	Solid	Total BTEX	
880-24904-19	BH-59	Total/NA	Solid	Total BTEX	
880-24904-20	BH-82	Total/NA	Solid	Total BTEX	
880-24904-21	BH-60	Total/NA	Solid	Total BTEX	
880-24904-22	BH-94	Total/NA	Solid	Total BTEX	
880-24904-23	BH-65	Total/NA	Solid	Total BTEX	
880-24904-24	SW-1	Total/NA	Solid	Total BTEX	
880-24904-25	SW-2	Total/NA	Solid	Total BTEX	
880-24904-26	SW-3	Total/NA	Solid	Total BTEX	
880-24904-27	SW-4	Total/NA	Solid	Total BTEX	
880-24904-28	SW-5	Total/NA	Solid	Total BTEX	
880-24904-29	SW-6	Total/NA	Solid	Total BTEX	
880-24904-30	SW-7	Total/NA	Solid	Total BTEX	
880-24904-31	SW-8	Total/NA	Solid	Total BTEX	
880-24904-32	SW-9	Total/NA	Solid	Total BTEX	
880-24904-33	SW-10	Total/NA	Solid	Total BTEX	
880-24904-34	SW-11	Total/NA	Solid	Total BTEX	
880-24904-35	SW-12	Total/NA	Solid	Total BTEX	
880-24904-36	SW-13	Total/NA	Solid	Total BTEX	
880-24904-37	SW-14	Total/NA	Solid	Total BTEX	
880-24904-38	SW-15	Total/NA	Solid	Total BTEX	
880-24904-39	SW-16	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 46677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-1	BH-78	Total/NA	Solid	8015B NM	46702
880-24904-2	BH-64	Total/NA	Solid	8015B NM	46702
880-24904-3	BH-57	Total/NA	Solid	8015B NM	46702
880-24904-4	BH-99	Total/NA	Solid	8015B NM	46702
880-24904-5	BH-61	Total/NA	Solid	8015B NM	46702
880-24904-6	BH-66	Total/NA	Solid	8015B NM	46702
880-24904-7	BH-100	Total/NA	Solid	8015B NM	46702
880-24904-8	BH-67	Total/NA	Solid	8015B NM	46702
880-24904-9	BH-58	Total/NA	Solid	8015B NM	46702
880-24904-10	BH-93	Total/NA	Solid	8015B NM	46702
880-24904-11	BH-88	Total/NA	Solid	8015B NM	46702
880-24904-12	BH-77	Total/NA	Solid	8015B NM	46702
880-24904-13	BH-54	Total/NA	Solid	8015B NM	46702
880-24904-14	BH-63	Total/NA	Solid	8015B NM	46702
880-24904-15	BH-81	Total/NA	Solid	8015B NM	46702
880-24904-16	BH-55	Total/NA	Solid	8015B NM	46702
880-24904-17	BH-92	Total/NA	Solid	8015B NM	46702
880-24904-18	BH-79	Total/NA	Solid	8015B NM	46702
880-24904-19	BH-59	Total/NA	Solid	8015B NM	46702

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

GC Semi VOA (Continued)

Analysis Batch: 46677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-20	BH-82	Total/NA	Solid	8015B NM	46702
MB 880-46702/1-A	Method Blank	Total/NA	Solid	8015B NM	46702
LCS 880-46702/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46702
LCSD 880-46702/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46702
880-24904-1 MS	BH-78	Total/NA	Solid	8015B NM	46702
880-24904-1 MSD	BH-78	Total/NA	Solid	8015B NM	46702

Analysis Batch: 46679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-21	BH-60	Total/NA	Solid	8015B NM	46703
880-24904-22	BH-94	Total/NA	Solid	8015B NM	46703
880-24904-23	BH-65	Total/NA	Solid	8015B NM	46703
880-24904-24	SW-1	Total/NA	Solid	8015B NM	46703
880-24904-25	SW-2	Total/NA	Solid	8015B NM	46703
880-24904-26	SW-3	Total/NA	Solid	8015B NM	46703
880-24904-27	SW-4	Total/NA	Solid	8015B NM	46703
880-24904-28	SW-5	Total/NA	Solid	8015B NM	46703
880-24904-29	SW-6	Total/NA	Solid	8015B NM	46703
880-24904-30	SW-7	Total/NA	Solid	8015B NM	46703
880-24904-31	SW-8	Total/NA	Solid	8015B NM	46703
880-24904-32	SW-9	Total/NA	Solid	8015B NM	46703
880-24904-33	SW-10	Total/NA	Solid	8015B NM	46703
880-24904-34	SW-11	Total/NA	Solid	8015B NM	46703
880-24904-35	SW-12	Total/NA	Solid	8015B NM	46703
880-24904-36	SW-13	Total/NA	Solid	8015B NM	46703
880-24904-37	SW-14	Total/NA	Solid	8015B NM	46703
880-24904-38	SW-15	Total/NA	Solid	8015B NM	46703
880-24904-39	SW-16	Total/NA	Solid	8015B NM	46703
MB 880-46703/1-A	Method Blank	Total/NA	Solid	8015B NM	46703
LCS 880-46703/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46703
LCSD 880-46703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46703
880-24904-21 MS	BH-60	Total/NA	Solid	8015B NM	46703
880-24904-21 MSD	BH-60	Total/NA	Solid	8015B NM	46703

Prep Batch: 46702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-1	BH-78	Total/NA	Solid	8015NM Prep	
880-24904-2	BH-64	Total/NA	Solid	8015NM Prep	
880-24904-3	BH-57	Total/NA	Solid	8015NM Prep	
880-24904-4	BH-99	Total/NA	Solid	8015NM Prep	
880-24904-5	BH-61	Total/NA	Solid	8015NM Prep	
880-24904-6	BH-66	Total/NA	Solid	8015NM Prep	
880-24904-7	BH-100	Total/NA	Solid	8015NM Prep	
880-24904-8	BH-67	Total/NA	Solid	8015NM Prep	
880-24904-9	BH-58	Total/NA	Solid	8015NM Prep	
880-24904-10	BH-93	Total/NA	Solid	8015NM Prep	
880-24904-11	BH-88	Total/NA	Solid	8015NM Prep	
880-24904-12	BH-77	Total/NA	Solid	8015NM Prep	
880-24904-13	BH-54	Total/NA	Solid	8015NM Prep	
880-24904-14	BH-63	Total/NA	Solid	8015NM Prep	
880-24904-15	BH-81	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

GC Semi VOA (Continued)

Prep Batch: 46702 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-16	BH-55	Total/NA	Solid	8015NM Prep	
880-24904-17	BH-92	Total/NA	Solid	8015NM Prep	
880-24904-18	BH-79	Total/NA	Solid	8015NM Prep	
880-24904-19	BH-59	Total/NA	Solid	8015NM Prep	
880-24904-20	BH-82	Total/NA	Solid	8015NM Prep	
MB 880-46702/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46702/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46702/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24904-1 MS	BH-78	Total/NA	Solid	8015NM Prep	
880-24904-1 MSD	BH-78	Total/NA	Solid	8015NM Prep	

Prep Batch: 46703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-21	BH-60	Total/NA	Solid	8015NM Prep	
880-24904-22	BH-94	Total/NA	Solid	8015NM Prep	
880-24904-23	BH-65	Total/NA	Solid	8015NM Prep	
880-24904-24	SW-1	Total/NA	Solid	8015NM Prep	
880-24904-25	SW-2	Total/NA	Solid	8015NM Prep	
880-24904-26	SW-3	Total/NA	Solid	8015NM Prep	
880-24904-27	SW-4	Total/NA	Solid	8015NM Prep	
880-24904-28	SW-5	Total/NA	Solid	8015NM Prep	
880-24904-29	SW-6	Total/NA	Solid	8015NM Prep	
880-24904-30	SW-7	Total/NA	Solid	8015NM Prep	
880-24904-31	SW-8	Total/NA	Solid	8015NM Prep	
880-24904-32	SW-9	Total/NA	Solid	8015NM Prep	
880-24904-33	SW-10	Total/NA	Solid	8015NM Prep	
880-24904-34	SW-11	Total/NA	Solid	8015NM Prep	
880-24904-35	SW-12	Total/NA	Solid	8015NM Prep	
880-24904-36	SW-13	Total/NA	Solid	8015NM Prep	
880-24904-37	SW-14	Total/NA	Solid	8015NM Prep	
880-24904-38	SW-15	Total/NA	Solid	8015NM Prep	
880-24904-39	SW-16	Total/NA	Solid	8015NM Prep	
MB 880-46703/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46703/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24904-21 MS	BH-60	Total/NA	Solid	8015NM Prep	
880-24904-21 MSD	BH-60	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-1	BH-78	Total/NA	Solid	8015 NM	
880-24904-2	BH-64	Total/NA	Solid	8015 NM	
880-24904-3	BH-57	Total/NA	Solid	8015 NM	
880-24904-4	BH-99	Total/NA	Solid	8015 NM	
880-24904-5	BH-61	Total/NA	Solid	8015 NM	
880-24904-6	BH-66	Total/NA	Solid	8015 NM	
880-24904-7	BH-100	Total/NA	Solid	8015 NM	
880-24904-8	BH-67	Total/NA	Solid	8015 NM	
880-24904-9	BH-58	Total/NA	Solid	8015 NM	
880-24904-10	BH-93	Total/NA	Solid	8015 NM	
880-24904-11	BH-88	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

GC Semi VOA (Continued)

Analysis Batch: 46876 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-12	BH-77	Total/NA	Solid	8015 NM	
880-24904-13	BH-54	Total/NA	Solid	8015 NM	
880-24904-14	BH-63	Total/NA	Solid	8015 NM	
880-24904-15	BH-81	Total/NA	Solid	8015 NM	
880-24904-16	BH-55	Total/NA	Solid	8015 NM	
880-24904-17	BH-92	Total/NA	Solid	8015 NM	
880-24904-18	BH-79	Total/NA	Solid	8015 NM	
880-24904-19	BH-59	Total/NA	Solid	8015 NM	
880-24904-20	BH-82	Total/NA	Solid	8015 NM	
880-24904-21	BH-60	Total/NA	Solid	8015 NM	
880-24904-22	BH-94	Total/NA	Solid	8015 NM	
880-24904-23	BH-65	Total/NA	Solid	8015 NM	
880-24904-24	SW-1	Total/NA	Solid	8015 NM	
880-24904-25	SW-2	Total/NA	Solid	8015 NM	
880-24904-26	SW-3	Total/NA	Solid	8015 NM	
880-24904-27	SW-4	Total/NA	Solid	8015 NM	
880-24904-28	SW-5	Total/NA	Solid	8015 NM	
880-24904-29	SW-6	Total/NA	Solid	8015 NM	
880-24904-30	SW-7	Total/NA	Solid	8015 NM	
880-24904-31	SW-8	Total/NA	Solid	8015 NM	
880-24904-32	SW-9	Total/NA	Solid	8015 NM	
880-24904-33	SW-10	Total/NA	Solid	8015 NM	
880-24904-34	SW-11	Total/NA	Solid	8015 NM	
880-24904-35	SW-12	Total/NA	Solid	8015 NM	
880-24904-36	SW-13	Total/NA	Solid	8015 NM	
880-24904-37	SW-14	Total/NA	Solid	8015 NM	
880-24904-38	SW-15	Total/NA	Solid	8015 NM	
880-24904-39	SW-16	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-1	BH-78	Soluble	Solid	DI Leach	
880-24904-2	BH-64	Soluble	Solid	DI Leach	
880-24904-3	BH-57	Soluble	Solid	DI Leach	
880-24904-4	BH-99	Soluble	Solid	DI Leach	
880-24904-5	BH-61	Soluble	Solid	DI Leach	
880-24904-6	BH-66	Soluble	Solid	DI Leach	
880-24904-7	BH-100	Soluble	Solid	DI Leach	
880-24904-8	BH-67	Soluble	Solid	DI Leach	
880-24904-9	BH-58	Soluble	Solid	DI Leach	
880-24904-10	BH-93	Soluble	Solid	DI Leach	
880-24904-11	BH-88	Soluble	Solid	DI Leach	
880-24904-12	BH-77	Soluble	Solid	DI Leach	
880-24904-13	BH-54	Soluble	Solid	DI Leach	
MB 880-46686/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46686/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46686/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24904-4 MS	BH-99	Soluble	Solid	DI Leach	
880-24904-4 MSD	BH-99	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

HPLC/IC

Leach Batch: 46687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-14	BH-63	Soluble	Solid	DI Leach	
880-24904-15	BH-81	Soluble	Solid	DI Leach	
880-24904-16	BH-55	Soluble	Solid	DI Leach	
880-24904-17	BH-92	Soluble	Solid	DI Leach	
880-24904-18	BH-79	Soluble	Solid	DI Leach	
880-24904-19	BH-59	Soluble	Solid	DI Leach	
880-24904-20	BH-82	Soluble	Solid	DI Leach	
880-24904-21	BH-60	Soluble	Solid	DI Leach	
880-24904-22	BH-94	Soluble	Solid	DI Leach	
880-24904-23	BH-65	Soluble	Solid	DI Leach	
880-24904-24	SW-1	Soluble	Solid	DI Leach	
880-24904-25	SW-2	Soluble	Solid	DI Leach	
880-24904-26	SW-3	Soluble	Solid	DI Leach	
880-24904-27	SW-4	Soluble	Solid	DI Leach	
880-24904-28	SW-5	Soluble	Solid	DI Leach	
880-24904-29	SW-6	Soluble	Solid	DI Leach	
880-24904-30	SW-7	Soluble	Solid	DI Leach	
880-24904-31	SW-8	Soluble	Solid	DI Leach	
880-24904-32	SW-9	Soluble	Solid	DI Leach	
880-24904-33	SW-10	Soluble	Solid	DI Leach	
MB 880-46687/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46687/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46687/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24904-14 MS	BH-63	Soluble	Solid	DI Leach	
880-24904-14 MSD	BH-63	Soluble	Solid	DI Leach	
880-24904-24 MS	SW-1	Soluble	Solid	DI Leach	
880-24904-24 MSD	SW-1	Soluble	Solid	DI Leach	

Leach Batch: 46688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-34	SW-11	Soluble	Solid	DI Leach	
880-24904-35	SW-12	Soluble	Solid	DI Leach	
880-24904-36	SW-13	Soluble	Solid	DI Leach	
880-24904-37	SW-14	Soluble	Solid	DI Leach	
880-24904-38	SW-15	Soluble	Solid	DI Leach	
880-24904-39	SW-16	Soluble	Solid	DI Leach	
MB 880-46688/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46688/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46688/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 46706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-1	BH-78	Soluble	Solid	300.0	46686
880-24904-2	BH-64	Soluble	Solid	300.0	46686
880-24904-3	BH-57	Soluble	Solid	300.0	46686
880-24904-4	BH-99	Soluble	Solid	300.0	46686
880-24904-5	BH-61	Soluble	Solid	300.0	46686
880-24904-6	BH-66	Soluble	Solid	300.0	46686
880-24904-7	BH-100	Soluble	Solid	300.0	46686
880-24904-8	BH-67	Soluble	Solid	300.0	46686
880-24904-9	BH-58	Soluble	Solid	300.0	46686

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

HPLC/IC (Continued)

Analysis Batch: 46706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-10	BH-93	Soluble	Solid	300.0	46686
880-24904-11	BH-88	Soluble	Solid	300.0	46686
880-24904-12	BH-77	Soluble	Solid	300.0	46686
880-24904-13	BH-54	Soluble	Solid	300.0	46686
MB 880-46686/1-A	Method Blank	Soluble	Solid	300.0	46686
LCS 880-46686/2-A	Lab Control Sample	Soluble	Solid	300.0	46686
LCSD 880-46686/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46686
880-24904-4 MS	BH-99	Soluble	Solid	300.0	46686
880-24904-4 MSD	BH-99	Soluble	Solid	300.0	46686

Analysis Batch: 46707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-14	BH-63	Soluble	Solid	300.0	46687
880-24904-15	BH-81	Soluble	Solid	300.0	46687
880-24904-16	BH-55	Soluble	Solid	300.0	46687
880-24904-17	BH-92	Soluble	Solid	300.0	46687
880-24904-18	BH-79	Soluble	Solid	300.0	46687
880-24904-19	BH-59	Soluble	Solid	300.0	46687
880-24904-20	BH-82	Soluble	Solid	300.0	46687
880-24904-21	BH-60	Soluble	Solid	300.0	46687
880-24904-22	BH-94	Soluble	Solid	300.0	46687
880-24904-23	BH-65	Soluble	Solid	300.0	46687
880-24904-24	SW-1	Soluble	Solid	300.0	46687
880-24904-25	SW-2	Soluble	Solid	300.0	46687
880-24904-26	SW-3	Soluble	Solid	300.0	46687
880-24904-27	SW-4	Soluble	Solid	300.0	46687
880-24904-28	SW-5	Soluble	Solid	300.0	46687
880-24904-29	SW-6	Soluble	Solid	300.0	46687
880-24904-30	SW-7	Soluble	Solid	300.0	46687
880-24904-31	SW-8	Soluble	Solid	300.0	46687
880-24904-32	SW-9	Soluble	Solid	300.0	46687
880-24904-33	SW-10	Soluble	Solid	300.0	46687
MB 880-46687/1-A	Method Blank	Soluble	Solid	300.0	46687
LCS 880-46687/2-A	Lab Control Sample	Soluble	Solid	300.0	46687
LCSD 880-46687/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46687
880-24904-14 MS	BH-63	Soluble	Solid	300.0	46687
880-24904-14 MSD	BH-63	Soluble	Solid	300.0	46687
880-24904-24 MS	SW-1	Soluble	Solid	300.0	46687
880-24904-24 MSD	SW-1	Soluble	Solid	300.0	46687

Analysis Batch: 46720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24904-34	SW-11	Soluble	Solid	300.0	46688
880-24904-35	SW-12	Soluble	Solid	300.0	46688
880-24904-36	SW-13	Soluble	Solid	300.0	46688
880-24904-37	SW-14	Soluble	Solid	300.0	46688
880-24904-38	SW-15	Soluble	Solid	300.0	46688
880-24904-39	SW-16	Soluble	Solid	300.0	46688
MB 880-46688/1-A	Method Blank	Soluble	Solid	300.0	46688
LCS 880-46688/2-A	Lab Control Sample	Soluble	Solid	300.0	46688
LCSD 880-46688/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46688

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-78

Lab Sample ID: 880-24904-1

Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 01:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 11:12	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 10:37	CH	EET MID

Client Sample ID: BH-64

Lab Sample ID: 880-24904-2

Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 01:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 12:18	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 10:43	CH	EET MID

Client Sample ID: BH-57

Lab Sample ID: 880-24904-3

Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 02:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 12:41	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 10:49	CH	EET MID

Client Sample ID: BH-99

Lab Sample ID: 880-24904-4

Date Collected: 02/15/23 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			5.04 g	5 mL	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 02:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-99

Lab Sample ID: 880-24904-4

Date Collected: 02/15/23 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			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 13:03	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 10:54	CH	EET MID

Client Sample ID: BH-61

Lab Sample ID: 880-24904-5

Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 02:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 13:26	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 11:11	CH	EET MID

Client Sample ID: BH-66

Lab Sample ID: 880-24904-6

Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 03:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 13:48	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 11:17	CH	EET MID

Client Sample ID: BH-100

Lab Sample ID: 880-24904-7

Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 03:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 14:10	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-100
Date Collected: 02/15/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-7
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			4.96 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 11:34	CH	EET MID

Client Sample ID: BH-67
Date Collected: 02/15/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 03:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 14:32	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 11:40	CH	EET MID

Client Sample ID: BH-58
Date Collected: 02/15/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-9
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			5.05 g	5 mL	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 04:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 14:54	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 11:45	CH	EET MID

Client Sample ID: BH-93
Date Collected: 02/15/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 04:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 15:16	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 11:51	CH	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-88**Lab Sample ID: 880-24904-11****Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 06:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 16:52	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 11:57	CH	EET MID

Client Sample ID: BH-77**Lab Sample ID: 880-24904-12****Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 06:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 17:36	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46686	02/20/23 09:31	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 12:02	CH	EET MID

Client Sample ID: BH-54**Lab Sample ID: 880-24904-13****Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 06:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 17:57	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46686	02/20/23 09:32	KS	EET MID
Soluble	Analysis	300.0		1			46706	02/21/23 12:08	CH	EET MID

Client Sample ID: BH-63**Lab Sample ID: 880-24904-14****Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 07:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-63

Lab Sample ID: 880-24904-14

Date Collected: 02/15/23 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			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 18:19	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 13:15	CH	EET MID

Client Sample ID: BH-81

Lab Sample ID: 880-24904-15

Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 07:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 18:40	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 13:34	CH	EET MID

Client Sample ID: BH-55

Lab Sample ID: 880-24904-16

Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 07:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 19:01	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 13:40	CH	EET MID

Client Sample ID: BH-92

Lab Sample ID: 880-24904-17

Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 08:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 19:22	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-92**Lab Sample ID: 880-24904-17****Date Collected: 02/15/23 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	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 13:46	CH	EET MID

Client Sample ID: BH-79**Lab Sample ID: 880-24904-18****Date Collected: 02/15/23 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			5.04 g	5 mL	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 08:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 19:44	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 13:52	CH	EET MID

Client Sample ID: BH-59**Lab Sample ID: 880-24904-19****Date Collected: 02/15/23 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	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 08:57	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 20:05	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 14:11	CH	EET MID

Client Sample ID: BH-82**Lab Sample ID: 880-24904-20****Date Collected: 02/15/23 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			5.00 g	5 mL	46750	02/20/23 14:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/21/23 09:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46702	02/20/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46677	02/20/23 20:27	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 14:17	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: BH-60

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 07:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 11:12	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 14:23	CH	EET MID

Client Sample ID: BH-94

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 07:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 12:18	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 14:30	CH	EET MID

Client Sample ID: BH-65

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-23

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			5.01 g	5 mL	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 08:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 12:41	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 14:36	CH	EET MID

Client Sample ID: SW-1

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 10:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:14	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-1

Lab Sample ID: 880-24904-24

Date Collected: 02/15/23 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			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 13:03	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 14:42	CH	EET MID

Client Sample ID: SW-2

Lab Sample ID: 880-24904-25

Date Collected: 02/15/23 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	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 10:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 13:26	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 15:01	CH	EET MID

Client Sample ID: SW-3

Lab Sample ID: 880-24904-26

Date Collected: 02/15/23 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	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 10:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 13:48	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 15:07	CH	EET MID

Client Sample ID: SW-4

Lab Sample ID: 880-24904-27

Date Collected: 02/15/23 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			5.04 g	5 mL	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 11:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 14:10	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-4

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-27

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			4.97 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 15:25	CH	EET MID

Client Sample ID: SW-5

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-28

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			5.05 g	5 mL	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 11:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 14:32	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 15:32	CH	EET MID

Client Sample ID: SW-6

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-29

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			5.00 g	5 mL	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 12:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 14:54	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 15:38	CH	EET MID

Client Sample ID: SW-7

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-30

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			4.95 g	5 mL	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 12:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 15:16	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 15:44	CH	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-8

Lab Sample ID: 880-24904-31

Date Collected: 02/15/23 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	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 13:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 16:52	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			46707	02/20/23 15:50	CH	EET MID

Client Sample ID: SW-9

Lab Sample ID: 880-24904-32

Date Collected: 02/15/23 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	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 17:36	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		10			46707	02/20/23 15:56	CH	EET MID

Client Sample ID: SW-10

Lab Sample ID: 880-24904-33

Date Collected: 02/15/23 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	46759	02/20/23 14:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46680	02/21/23 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 17:57	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46687	02/20/23 09:33	KS	EET MID
Soluble	Analysis	300.0		20			46707	02/20/23 16:02	CH	EET MID

Client Sample ID: SW-11

Lab Sample ID: 880-24904-34

Date Collected: 02/15/23 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	46773	02/20/23 14:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46682	02/21/23 06:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:09	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-11

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-34

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			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 18:19	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46688	02/20/23 09:36	KS	EET MID
Soluble	Analysis	300.0		5			46720	02/20/23 18:42	CH	EET MID

Client Sample ID: SW-12

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-35

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	46773	02/20/23 14:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46682	02/21/23 06:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 18:40	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	46688	02/20/23 09:36	KS	EET MID
Soluble	Analysis	300.0		20			46720	02/20/23 19:01	CH	EET MID

Client Sample ID: SW-13

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-36

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	46792	02/20/23 15:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46819	02/21/23 11:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 19:01	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46688	02/20/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			46720	02/20/23 19:07	CH	EET MID

Client Sample ID: SW-14

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-37

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	46792	02/20/23 15:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46819	02/21/23 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 19:22	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Client Sample ID: SW-14

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-37

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			5.02 g	50 mL	46688	02/20/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			46720	02/20/23 19:13	CH	EET MID

Client Sample ID: SW-15

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-38

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			5.03 g	5 mL	46792	02/20/23 15:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46819	02/21/23 12:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 19:44	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46688	02/20/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			46720	02/20/23 19:20	CH	EET MID

Client Sample ID: SW-16

Date Collected: 02/15/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24904-39

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			5.02 g	5 mL	46792	02/20/23 15:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46819	02/21/23 12:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46906	02/21/23 16:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46876	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 20:05	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46688	02/20/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			46720	02/20/23 19:26	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: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

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: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

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: Doodlebug SWD Release Site

Job ID: 880-24904-1
SDG: 12603583

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-24904-1	BH-78	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-2	BH-64	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-3	BH-57	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-4	BH-99	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-5	BH-61	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-6	BH-66	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-7	BH-100	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-8	BH-67	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-9	BH-58	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-10	BH-93	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-11	BH-88	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-12	BH-77	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-13	BH-54	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-14	BH-63	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-15	BH-81	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-16	BH-55	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-17	BH-92	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-18	BH-79	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-19	BH-59	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-20	BH-82	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-21	BH-60	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-22	BH-94	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-23	BH-65	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-24	SW-1	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-25	SW-2	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-26	SW-3	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-27	SW-4	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-28	SW-5	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-29	SW-6	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-30	SW-7	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-31	SW-8	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-32	SW-9	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-33	SW-10	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-34	SW-11	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-35	SW-12	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-36	SW-13	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-37	SW-14	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-38	SW-15	Solid	02/15/23 00:00	02/17/23 16:33	4 ft
880-24904-39	SW-16	Solid	02/15/23 00:00	02/17/23 16:33	4 ft



Environment Testing
Xenco

Chain of Custody

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

Work Order No: 24904

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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	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other

Project Name	Doodlebug SWD Release		☒ Routine ☐ Rush		Pres Code	ANALYSIS REQUEST										Preservative Codes				
Project Number	12603583															None NO DI Water H ₂ O				
Project Location	Eunice, NM		Due Date		2/21/2023											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			Tap Blank		Yes ☒ No ☐	Well Ice		Yes ☒ No ☐											H ₃ PO ₄ HP	
Samples Received Inact			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					Corrected Temperature														NaOH+Ascorbic Acid SANC	
Sample Identification			Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont		Parameters		Sample Comments			
BH-78			SO		2/15/2023				4ft		Comp 1		X		X		Incident ID			
BH-64			SO		2/15/2023				4ft		Comp 1		X		X					
BH-57			SO		2/15/2023				4ft		Comp 1		X		X		Cost Center			
BH-99			SO		2/15/2023				4ft		Comp 1		X		X					
BH-61			SO		2/15/2023				4ft		Comp 1		X		X		AFE			
BH-66			SO		2/15/2023				4ft		Comp 1		X		X					
BH-100			SO		2/15/2023				4ft		Comp 1		X		X					
BH-67			SO		2/15/2023				4ft		Comp 1		X		X					
BH-58			SO		2/15/2023				4ft		Comp 1		X		X					
BH-93			SO		2/15/2023				4ft		Comp 1		X		X					

Total 200.7 / 6010 200.8 / 6620:

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 Mn Mo Ni K Se Ag SiO₂ 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 D. Sparks		2-17-23/4:33			
3					
5					



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:

24904

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Page 2 of 4

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

Project Name:	Doodlebug SWD Release	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number:	12603583							None NO DI Water H ₂ O	
Project Location:	Eunice, NM	Due Date:	2/17/2023					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	Well 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:				Comed 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)	Incident ID	Sample Comments
BH-88	SO	2/15/2023		4ft	Comp	1	X	X	X		
BH-77	SO	2/15/2023		4ft	Comp	1	X	X	X		
BH-54	SO	2/15/2023		4ft	Comp	1	X	X	X		Cost Center
BH-63	SO	2/15/2023		4ft	Comp	1	X	X	X		
BH-81	SO	2/15/2023		4ft	Comp	1	X	X	X		AFE
BH-55	SO	2/15/2023		4ft	Comp	1	X	X	X		
BH-92	SO	2/15/2023		4ft	Comp	1	X	X	X		
BH-79	SO	2/15/2023		4ft	Comp	1	X	X	X		
BH-59	SO	2/15/2023		4ft	Comp	1	X	X	X		
BH-82	SO	2/15/2023		4ft	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 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

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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>		2-17-23/4:28			
3					
5					



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) 986-3199

Work Order No: 24904

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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

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:	Doodlebug SWD Release		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes				
Project Number:	12603583		☒ Routine ☐ Rush																None NO DI Water H ₂ O				
Project Location:	Eunice, NM		Due Date:		2/17/2023														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						
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont	CHLORIDES (EPA 300.0)												Sample Comments				
BH-60	SO	2/15/2023		4ft	Comp	1	X	X	X													Incident ID	
BH-94	SO	2/15/2023		4ft	Comp	1	X	X	X														
BH-65	SO	2/15/2023		4ft	Comp	1	X	X	X													Cost Center	
SW-1	SO	2/15/2023		4ft	Comp	1	X	X	X														
SW-2	SO	2/15/2023		4ft	Comp	1	X	X	X													AFE	
SW-3	SO	2/15/2023		4ft	Comp	1	X	X	X														
SW-4	SO	2/15/2023		4ft	Comp	1	X	X	X														
SW-5	SO	2/15/2023		4ft	Comp	1	X	X	X														
SW-6	SO	2/15/2023		4ft	Comp	1	X	X	X														
SW-7	SO	2/15/2023		4ft	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 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. Panner		2/17/23/4:33			2
3					4
5					6



Environment Testing
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Chain of Custody

Houston, TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
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Hobbs NM (575) 392-7550 Carlsbad NM (575) 986-3199

Work Order No: 24904

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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

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:	Doodlebug SWD Release	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes			
Project Number:	12603583	Due Date:	2/17/2023															None NO	DI Water H ₂ O		
Project Location:	Eunice, NM	TAT starts the day received by the lab if received by 4 30pm																Cool Cool	MeOH Me		
Sampler's Name:	Daniel Sparks																	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 SACP			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont	CHLORIDES (EPA 300.0)												Sample Comments		
	SW-8	SO	2/15/2023		4ft	Comp 1	X	X	X	X							Incident ID				
	SW-9	SO	2/15/2023		4ft	Comp 1	X	X	X	X											
	SW-10	SO	2/15/2023		4ft	Comp 1	X	X	X	X							Cost Center				
	SW-11	SO	2/15/2023		4ft	Comp 1	X	X	X	X											
	SW-12	SO	2/15/2023		4ft	Comp 1	X	X	X	X							AFF				
	SW-13	SO	2/15/2023		4ft	Comp 1	X	X	X	X											
	SW-14	SO	2/15/2023		4ft	Comp 1	X	X	X	X											
	SW-15	SO	2/15/2023		4ft	Comp 1	X	X	X	X											
	SW-16	SO	2/15/2023		4ft	Comp 1	X	X	X	X											
								Loc: 880													
								24904													

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

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 <i>[Signature]</i>	<i>[Signature]</i>	2-17-23 4:28			
3					
5					

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-24904-1
SDG Number: 12603583

Login Number: 24904
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.
11451 Katy Freeway
Suite 400
Houston, Texas 77079

Generated 3/14/2023 5:16:25 PM

JOB DESCRIPTION

Doodlebug SWD Release
SDG NUMBER 12603583

JOB NUMBER

880-25471-1

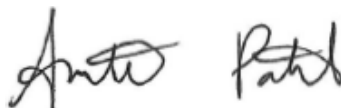
Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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



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3/14/2023 5:16:25 PM

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

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Laboratory Job ID: 880-25471-1
SDG: 12603583

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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
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Case Narrative

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Job ID: 880-25471-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-25471-1**

Receipt

The samples were received on 3/6/2023 9:50 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 5.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH-3 (880-25471-1), BH-4 (880-25471-2), BH-10 (880-25471-3), BH-14 (880-25471-4), BH-16 (880-25471-5), BH-17 (880-25471-6), BH-18 (880-25471-7), BH-20 (880-25471-8), BH-22 (880-25471-9), BH-23 (880-25471-10), BH-24 (880-25471-11), BH-25 (880-25471-12), BH-29 (880-25471-13), BH-30 (880-25471-14), BH-32 (880-25471-15), BH-35 (880-25471-16), BH-36 (880-25471-17), BH-37 (880-25471-18), BH-38 (880-25471-19), BH-40 (880-25471-20), BH-42 (880-25471-21), BH-43 (880-25471-22), BH-45 (880-25471-23), BH-47 (880-25471-24), BH-49 (880-25471-25), BH-52 (880-25471-26), BH-53 (880-25471-27), BH-56 (880-25471-28), BH-62 (880-25471-29), BH-66 (880-25471-30), BH-68 (880-25471-31), BH-69 (880-25471-32), BH-70 (880-25471-33), BH-71 (880-25471-34), BH-73 (880-25471-35), BH-74 (880-25471-36), BH-75 (880-25471-37), BH-76 (880-25471-38), BH-80 (880-25471-39), BH-83 (880-25471-40), BH-84 (880-25471-41), BH-85 (880-25471-42), BH-86 (880-25471-43), BH-87 (880-25471-44), BH-88 (880-25471-45), BH-89 (880-25471-46), BH-90 (880-25471-47), BH-91 (880-25471-48), BH-95 (880-25471-49), BH-96 (880-25471-50), BH-97 (880-25471-51), BH-98 (880-25471-52), BH-101 (880-25471-53), BH-102 (880-25471-54), BH-39 (880-25471-55) and BH-72 (880-25471-56).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-3 (880-25471-1), BH-10 (880-25471-3), BH-14 (880-25471-4), BH-16 (880-25471-5), BH-18 (880-25471-7), BH-20 (880-25471-8), BH-22 (880-25471-9), BH-23 (880-25471-10), BH-24 (880-25471-11), BH-25 (880-25471-12), BH-29 (880-25471-13), BH-30 (880-25471-14), BH-32 (880-25471-15) and (880-25537-A-16-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-48185 and 880-48190 and analytical batch 880-48287 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-48185/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-38 (880-25471-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-68 (880-25471-31). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-48190/5-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.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-47921 and analytical batch 880-47856 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 duplicate (LCSD) recovery is within acceptance limits.

Method 8015MOD_NM: LCS biased low. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported(LCS 880-47921/2-A)

Case Narrative

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Job ID: 880-25471-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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 880-47973 and analytical batch 880-48053 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 880-47975 and analytical batch 880-48101 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: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-3

Lab Sample ID: 880-25471-1

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:39	03/10/23 00:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 00:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 00:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 00:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 00:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	03/09/23 09:39	03/10/23 00:55	1
1,4-Difluorobenzene (Surr)	81		70 - 130	03/09/23 09:39	03/10/23 00:55	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			03/10/23 17:38	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.3		49.9		mg/Kg			03/07/23 13:47	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 F2 *- *1	49.9		mg/Kg		03/06/23 11:45	03/06/23 21:02	1
Diesel Range Organics (Over C10-C28)	82.3	F1	49.9		mg/Kg		03/06/23 11:45	03/06/23 21:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/06/23 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	03/06/23 11:45	03/06/23 21:02	1
o-Terphenyl	118		70 - 130	03/06/23 11:45	03/06/23 21:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	441	F1	4.95		mg/Kg			03/07/23 18:00	1

Client Sample ID: BH-4

Lab Sample ID: 880-25471-2

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:39	03/10/23 01:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 01:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 01:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 01:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 01:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	03/09/23 09:39	03/10/23 01:15	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-4

Lab Sample ID: 880-25471-2

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	79		70 - 130	03/09/23 09:39	03/10/23 01:15	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			03/10/23 17:38	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	439		49.9		mg/Kg			03/07/23 13:47	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 *- *1	49.9		mg/Kg		03/06/23 11:45	03/06/23 22:09	1
Diesel Range Organics (Over C10-C28)	439		49.9		mg/Kg		03/06/23 11:45	03/06/23 22:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/06/23 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/06/23 11:45	03/06/23 22:09	1
o-Terphenyl	106		70 - 130				03/06/23 11:45	03/06/23 22:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870		24.9		mg/Kg			03/07/23 18:18	5

Client Sample ID: BH-10

Lab Sample ID: 880-25471-3

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:39	03/10/23 01:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/10/23 01:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/10/23 01:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/09/23 09:39	03/10/23 01:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/10/23 01:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/09/23 09:39	03/10/23 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	03/09/23 09:39	03/10/23 01:36	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130	03/09/23 09:39	03/10/23 01:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/10/23 17:38	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	163		50.0		mg/Kg			03/07/23 13:47	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-10

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-3

Matrix: Solid

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 *- *1	50.0		mg/Kg		03/06/23 11:45	03/06/23 22:31	1
Diesel Range Organics (Over C10-C28)	163		50.0		mg/Kg		03/06/23 11:45	03/06/23 22:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/06/23 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				03/06/23 11:45	03/06/23 22:31	1
o-Terphenyl	101		70 - 130				03/06/23 11:45	03/06/23 22:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1660		24.9		mg/Kg			03/07/23 18:25	5

Client Sample ID: BH-14

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-4

Matrix: Solid

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		03/09/23 09:39	03/10/23 01:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 01:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 01:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 01:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 01:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 01:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				03/09/23 09:39	03/10/23 01:57	1
1,4-Difluorobenzene (Surr)	78		70 - 130				03/09/23 09:39	03/10/23 01:57	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			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	50.0		mg/Kg		03/06/23 11:45	03/06/23 22:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/06/23 22:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/06/23 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/06/23 11:45	03/06/23 22:53	1
o-Terphenyl	110		70 - 130				03/06/23 11:45	03/06/23 22:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-14

Lab Sample ID: 880-25471-4

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.7		4.96		mg/Kg			03/07/23 18:31	1

Client Sample ID: BH-16

Lab Sample ID: 880-25471-5

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:39	03/10/23 02:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/10/23 02:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/10/23 02:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/09/23 09:39	03/10/23 02:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/10/23 02:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/09/23 09:39	03/10/23 02:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				03/09/23 09:39	03/10/23 02:17	1
1,4-Difluorobenzene (Surr)	74		70 - 130				03/09/23 09:39	03/10/23 02:17	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			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	49.9		mg/Kg		03/06/23 11:45	03/06/23 23:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/06/23 23:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/06/23 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				03/06/23 11:45	03/06/23 23:16	1
o-Terphenyl	96		70 - 130				03/06/23 11:45	03/06/23 23:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	506		4.95		mg/Kg			03/07/23 18:37	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-17

Lab Sample ID: 880-25471-6

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:39	03/10/23 03:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:39	03/10/23 03:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:39	03/10/23 03:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/09/23 09:39	03/10/23 03:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:39	03/10/23 03:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/09/23 09:39	03/10/23 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	03/09/23 09:39	03/10/23 03:41	1
1,4-Difluorobenzene (Surr)	79		70 - 130	03/09/23 09:39	03/10/23 03:41	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			03/10/23 17:38	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	77.1		49.9		mg/Kg			03/07/23 13:47	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 *- *1	49.9		mg/Kg		03/06/23 11:45	03/06/23 23:39	1
Diesel Range Organics (Over C10-C28)	77.1		49.9		mg/Kg		03/06/23 11:45	03/06/23 23:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/06/23 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	03/06/23 11:45	03/06/23 23:39	1
o-Terphenyl	106		70 - 130	03/06/23 11:45	03/06/23 23:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	517		4.97		mg/Kg			03/07/23 18:55	1

Client Sample ID: BH-18

Lab Sample ID: 880-25471-7

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:39	03/10/23 04:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:39	03/10/23 04:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:39	03/10/23 04:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/09/23 09:39	03/10/23 04:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:39	03/10/23 04:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/09/23 09:39	03/10/23 04:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	03/09/23 09:39	03/10/23 04:01	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-18

Lab Sample ID: 880-25471-7

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	77		70 - 130	03/09/23 09:39	03/10/23 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	<0.00404	U	0.00404		mg/Kg			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	50.0		mg/Kg		03/06/23 11:45	03/07/23 00:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/07/23 00:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/07/23 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				03/06/23 11:45	03/07/23 00:01	1
o-Terphenyl	108		70 - 130				03/06/23 11:45	03/07/23 00:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.4		5.01		mg/Kg			03/07/23 19:01	1

Client Sample ID: BH-20

Lab Sample ID: 880-25471-8

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:39	03/10/23 04:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 04:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 04:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 04:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 04:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	03/09/23 09:39	03/10/23 04:22	1
1,4-Difluorobenzene (Surr)	72		70 - 130	03/09/23 09:39	03/10/23 04:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/23 17:38	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	102		49.9		mg/Kg			03/07/23 13:47	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-20

Lab Sample ID: 880-25471-8

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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 *- *1	49.9		mg/Kg		03/06/23 11:45	03/07/23 00:23	1
Diesel Range Organics (Over C10-C28)	102		49.9		mg/Kg		03/06/23 11:45	03/07/23 00:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				03/06/23 11:45	03/07/23 00:23	1
o-Terphenyl	107		70 - 130				03/06/23 11:45	03/07/23 00:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	660		4.99		mg/Kg			03/07/23 19:08	1

Client Sample ID: BH-22

Lab Sample ID: 880-25471-9

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:39	03/10/23 04:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 04:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 04:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 04:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 04:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 04:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				03/09/23 09:39	03/10/23 04:43	1
1,4-Difluorobenzene (Surr)	78		70 - 130				03/09/23 09:39	03/10/23 04:43	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			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	49.9		mg/Kg		03/06/23 11:45	03/07/23 00:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 00:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/06/23 11:45	03/07/23 00:44	1
o-Terphenyl	107		70 - 130				03/06/23 11:45	03/07/23 00:44	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-22

Lab Sample ID: 880-25471-9

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.3		4.97		mg/Kg			03/07/23 19:14	1

Client Sample ID: BH-23

Lab Sample ID: 880-25471-10

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:39	03/10/23 05:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 05:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 05:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 05:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 05:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 05:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130				03/09/23 09:39	03/10/23 05:03	1
1,4-Difluorobenzene (Surr)	86		70 - 130				03/09/23 09:39	03/10/23 05:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	50.0		mg/Kg		03/06/23 11:45	03/07/23 01:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/07/23 01:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/07/23 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/06/23 11:45	03/07/23 01:06	1
o-Terphenyl	117		70 - 130				03/06/23 11:45	03/07/23 01:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		4.95		mg/Kg			03/07/23 19:20	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-24

Lab Sample ID: 880-25471-11

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:39	03/10/23 05:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:39	03/10/23 05:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:39	03/10/23 05:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/09/23 09:39	03/10/23 05:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:39	03/10/23 05:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/09/23 09:39	03/10/23 05:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	03/09/23 09:39	03/10/23 05:24	1
1,4-Difluorobenzene (Surr)	84		70 - 130	03/09/23 09:39	03/10/23 05:24	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			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	50.0		mg/Kg		03/06/23 11:45	03/07/23 01:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/07/23 01:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/07/23 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	03/06/23 11:45	03/07/23 01:49	1
o-Terphenyl	104		70 - 130	03/06/23 11:45	03/07/23 01:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	261		5.01		mg/Kg			03/07/23 19:26	1

Client Sample ID: BH-25

Lab Sample ID: 880-25471-12

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:39	03/10/23 05:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:39	03/10/23 05:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:39	03/10/23 05:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/09/23 09:39	03/10/23 05:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:39	03/10/23 05:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/09/23 09:39	03/10/23 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	03/09/23 09:39	03/10/23 05:45	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-25

Lab Sample ID: 880-25471-12

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	78		70 - 130	03/09/23 09:39	03/10/23 05:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	50.0		mg/Kg		03/06/23 11:45	03/07/23 02:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/07/23 02:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/07/23 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				03/06/23 11:45	03/07/23 02:10	1
o-Terphenyl	101		70 - 130				03/06/23 11:45	03/07/23 02:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	351		5.04		mg/Kg			03/07/23 19:45	1

Client Sample ID: BH-29

Lab Sample ID: 880-25471-13

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:39	03/10/23 06:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 06:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 06:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 06:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 06:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	03/09/23 09:39	03/10/23 06:05	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/09/23 09:39	03/10/23 06:05	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			03/10/23 17:38	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			03/07/23 13:47	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-29

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-13

Matrix: Solid

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 *- *1	49.9		mg/Kg		03/06/23 11:45	03/07/23 02:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 02:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/06/23 11:45	03/07/23 02:31	1
o-Terphenyl	118		70 - 130				03/06/23 11:45	03/07/23 02:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.7		4.97		mg/Kg			03/07/23 19:51	1

Client Sample ID: BH-30

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-14

Matrix: Solid

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		03/09/23 09:39	03/10/23 06:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 06:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 06:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 06:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:39	03/10/23 06:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:39	03/10/23 06:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/09/23 09:39	03/10/23 06:26	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130				03/09/23 09:39	03/10/23 06:26	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			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	49.9		mg/Kg		03/06/23 11:45	03/07/23 02:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 02:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				03/06/23 11:45	03/07/23 02:53	1
o-Terphenyl	105		70 - 130				03/06/23 11:45	03/07/23 02:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-30

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-14

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	335		5.00		mg/Kg			03/07/23 20:09	1

Client Sample ID: BH-32

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-15

Matrix: Solid

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		03/09/23 09:39	03/10/23 06:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/10/23 06:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/10/23 06:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/09/23 09:39	03/10/23 06:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/10/23 06:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/09/23 09:39	03/10/23 06:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				03/09/23 09:39	03/10/23 06:46	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/09/23 09:39	03/10/23 06:46	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			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	49.8		mg/Kg		03/06/23 11:45	03/07/23 03:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/23 11:45	03/07/23 03:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/23 11:45	03/07/23 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				03/06/23 11:45	03/07/23 03:14	1
o-Terphenyl	107		70 - 130				03/06/23 11:45	03/07/23 03:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		4.99		mg/Kg			03/07/23 20:16	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-35

Lab Sample ID: 880-25471-16

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:46	03/10/23 13:47	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		03/09/23 09:46	03/10/23 13:47	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		03/09/23 09:46	03/10/23 13:47	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		03/09/23 09:46	03/10/23 13:47	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		03/09/23 09:46	03/10/23 13:47	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		03/09/23 09:46	03/10/23 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	03/09/23 09:46	03/10/23 13:47	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/09/23 09:46	03/10/23 13:47	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			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	50.0		mg/Kg		03/06/23 11:45	03/07/23 03:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/07/23 03:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/07/23 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	03/06/23 11:45	03/07/23 03:36	1
o-Terphenyl	104		70 - 130	03/06/23 11:45	03/07/23 03:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		5.01		mg/Kg			03/07/23 20:22	1

Client Sample ID: BH-36

Lab Sample ID: 880-25471-17

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:46	03/10/23 14:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:46	03/10/23 14:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:46	03/10/23 14:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/09/23 09:46	03/10/23 14:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:46	03/10/23 14:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/09/23 09:46	03/10/23 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	03/09/23 09:46	03/10/23 14:13	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-36

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-17

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	03/09/23 09:46	03/10/23 14:13	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			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	49.9		mg/Kg		03/06/23 11:45	03/07/23 03:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 03:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 03:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/06/23 11:45	03/07/23 03:57	1
o-Terphenyl	115		70 - 130				03/06/23 11:45	03/07/23 03:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.2		4.98		mg/Kg			03/07/23 20:28	1

Client Sample ID: BH-37

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-18

Matrix: Solid

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		03/09/23 09:46	03/10/23 14:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 14:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 14:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 14:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 14:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	03/09/23 09:46	03/10/23 14:39	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/09/23 09:46	03/10/23 14:39	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			03/10/23 17:38	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			03/07/23 13:47	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-37

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-18

Matrix: Solid

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 *- *1	49.9		mg/Kg		03/06/23 11:45	03/07/23 04:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 04:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/06/23 11:45	03/07/23 04:18	1
o-Terphenyl	121		70 - 130				03/06/23 11:45	03/07/23 04:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		5.02		mg/Kg			03/07/23 20:34	1

Client Sample ID: BH-38

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-19

Matrix: Solid

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		03/09/23 09:46	03/10/23 15:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 15:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 15:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 15:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 15:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130				03/09/23 09:46	03/10/23 15:05	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/09/23 09:46	03/10/23 15:05	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			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	49.9		mg/Kg		03/06/23 11:45	03/07/23 04:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 04:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:45	03/07/23 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/06/23 11:45	03/07/23 04:41	1
o-Terphenyl	109		70 - 130				03/06/23 11:45	03/07/23 04:41	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-38

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-19

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	156		5.05		mg/Kg			03/07/23 20:40	1

Client Sample ID: BH-40

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-20

Matrix: Solid

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		03/09/23 09:46	03/10/23 15:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 15:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 15:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/09/23 09:46	03/10/23 15:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 15:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/09/23 09:46	03/10/23 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				03/09/23 09:46	03/10/23 15:31	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/09/23 09:46	03/10/23 15:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/10/23 17:38	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			03/07/23 13:47	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 *- *1	50.0		mg/Kg		03/06/23 11:45	03/07/23 05:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/07/23 05:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/07/23 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				03/06/23 11:45	03/07/23 05:02	1
o-Terphenyl	103		70 - 130				03/06/23 11:45	03/07/23 05:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		4.95		mg/Kg			03/07/23 20:46	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-42

Lab Sample ID: 880-25471-21

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:46	03/10/23 15:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:46	03/10/23 15:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:46	03/10/23 15:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/09/23 09:46	03/10/23 15:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:46	03/10/23 15:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/09/23 09:46	03/10/23 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	03/09/23 09:46	03/10/23 15:58	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/09/23 09:46	03/10/23 15:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/10/23 17:38	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			03/07/23 14:01	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		03/06/23 11:49	03/06/23 21:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/06/23 21:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/06/23 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	03/06/23 11:49	03/06/23 21:02	1
o-Terphenyl	97		70 - 130	03/06/23 11:49	03/06/23 21:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	317		5.01		mg/Kg			03/07/23 21:36	1

Client Sample ID: BH-43

Lab Sample ID: 880-25471-22

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:46	03/10/23 16:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 16:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 16:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/09/23 09:46	03/10/23 16:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 16:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/09/23 09:46	03/10/23 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/09/23 09:46	03/10/23 16:24	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-43

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-22

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	03/09/23 09:46	03/10/23 16:24	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			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/06/23 22:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/06/23 22:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/06/23 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/06/23 11:49	03/06/23 22:09	1
o-Terphenyl	106		70 - 130				03/06/23 11:49	03/06/23 22:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		4.98		mg/Kg			03/07/23 21:54	1

Client Sample ID: BH-45

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-23

Matrix: Solid

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		03/09/23 09:46	03/10/23 16:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 16:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 16:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 16:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 16:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	03/09/23 09:46	03/10/23 16:50	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/09/23 09:46	03/10/23 16:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/13/23 17:28	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			03/07/23 14:01	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-45

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-23

Matrix: Solid

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		03/06/23 11:49	03/06/23 22:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/06/23 22:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/06/23 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				03/06/23 11:49	03/06/23 22:31	1
o-Terphenyl	101		70 - 130				03/06/23 11:49	03/06/23 22:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279		5.00		mg/Kg			03/07/23 22:00	1

Client Sample ID: BH-47

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-24

Matrix: Solid

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		03/09/23 09:46	03/10/23 17:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 17:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 17:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 17:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 17:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 17:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				03/09/23 09:46	03/10/23 17:16	1
1,4-Difluorobenzene (Surr)	88		70 - 130				03/09/23 09:46	03/10/23 17:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/06/23 22:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:49	03/06/23 22:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:49	03/06/23 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				03/06/23 11:49	03/06/23 22:53	1
o-Terphenyl	91		70 - 130				03/06/23 11:49	03/06/23 22:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-47

Lab Sample ID: 880-25471-24

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.8		4.99		mg/Kg			03/07/23 22:06	1

Client Sample ID: BH-49

Lab Sample ID: 880-25471-25

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:46	03/10/23 17:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 17:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 17:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 17:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 17:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				03/09/23 09:46	03/10/23 17:42	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/09/23 09:46	03/10/23 17:42	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			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/06/23 23:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/06/23 23:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/06/23 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				03/06/23 11:49	03/06/23 23:16	1
o-Terphenyl	100		70 - 130				03/06/23 11:49	03/06/23 23:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		5.00		mg/Kg			03/07/23 22:13	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-52

Lab Sample ID: 880-25471-26

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:46	03/10/23 19:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 19:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 19:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 19:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 19:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	03/09/23 09:46	03/10/23 19:26	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/09/23 09:46	03/10/23 19:26	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			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/06/23 23:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/06/23 23:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/06/23 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	03/06/23 11:49	03/06/23 23:39	1
o-Terphenyl	117		70 - 130	03/06/23 11:49	03/06/23 23:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.9		5.02		mg/Kg			03/07/23 22:31	1

Client Sample ID: BH-53

Lab Sample ID: 880-25471-27

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:46	03/10/23 19:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 19:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 19:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/09/23 09:46	03/10/23 19:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 19:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/09/23 09:46	03/10/23 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	03/09/23 09:46	03/10/23 19:52	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-53

Lab Sample ID: 880-25471-27

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	03/09/23 09:46	03/10/23 19:52	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			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/07/23 00:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:49	03/07/23 00:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:49	03/07/23 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/06/23 11:49	03/07/23 00:01	1
o-Terphenyl	105		70 - 130				03/06/23 11:49	03/07/23 00:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	343		4.98		mg/Kg			03/07/23 22:38	1

Client Sample ID: BH-56

Lab Sample ID: 880-25471-28

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:46	03/10/23 20:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 20:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 20:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/09/23 09:46	03/10/23 20:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 20:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/09/23 09:46	03/10/23 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	03/09/23 09:46	03/10/23 20:18	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/09/23 09:46	03/10/23 20:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/13/23 17:28	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			03/07/23 14:01	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-56

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-28

Matrix: Solid

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		03/06/23 11:49	03/07/23 00:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 00:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				03/06/23 11:49	03/07/23 00:23	1
o-Terphenyl	105		70 - 130				03/06/23 11:49	03/07/23 00:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	274		4.95		mg/Kg			03/07/23 22:44	1

Client Sample ID: BH-62

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-29

Matrix: Solid

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00204	U	0.00204		mg/Kg		03/09/23 09:46	03/10/23 20:44	1
Toluene	<0.00204	U	0.00204		mg/Kg		03/09/23 09:46	03/10/23 20:44	1
Ethylbenzene	<0.00204	U	0.00204		mg/Kg		03/09/23 09:46	03/10/23 20:44	1
m-Xylene & p-Xylene	<0.00408	U	0.00408		mg/Kg		03/09/23 09:46	03/10/23 20:44	1
o-Xylene	<0.00204	U	0.00204		mg/Kg		03/09/23 09:46	03/10/23 20:44	1
Xylenes, Total	<0.00408	U	0.00408		mg/Kg		03/09/23 09:46	03/10/23 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				03/09/23 09:46	03/10/23 20:44	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/09/23 09:46	03/10/23 20:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00408	U	0.00408		mg/Kg			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/07/23 00:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 00:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				03/06/23 11:49	03/07/23 00:44	1
o-Terphenyl	104		70 - 130				03/06/23 11:49	03/07/23 00:44	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-62

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-29

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		5.05		mg/Kg			03/07/23 22:50	1

Client Sample ID: BH-66

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-30

Matrix: Solid

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		03/09/23 09:46	03/10/23 21:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 21:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 21:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/23 09:46	03/10/23 21:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 21:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/23 09:46	03/10/23 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				03/09/23 09:46	03/10/23 21:10	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/09/23 09:46	03/10/23 21:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/07/23 01:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 01:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				03/06/23 11:49	03/07/23 01:06	1
o-Terphenyl	124		70 - 130				03/06/23 11:49	03/07/23 01:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	252		5.01		mg/Kg			03/07/23 22:56	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-68

Lab Sample ID: 880-25471-31

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:46	03/10/23 21:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:46	03/10/23 21:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:46	03/10/23 21:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/09/23 09:46	03/10/23 21:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:46	03/10/23 21:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/09/23 09:46	03/10/23 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	03/09/23 09:46	03/10/23 21:36	1
1,4-Difluorobenzene (Surr)	81		70 - 130	03/09/23 09:46	03/10/23 21:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/07/23 01:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 01:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/06/23 11:49	03/07/23 01:49	1
o-Terphenyl	121		70 - 130	03/06/23 11:49	03/07/23 01:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	209		5.00		mg/Kg			03/07/23 23:02	1

Client Sample ID: BH-69

Lab Sample ID: 880-25471-32

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:46	03/10/23 22:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:46	03/10/23 22:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:46	03/10/23 22:02	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/09/23 09:46	03/10/23 22:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:46	03/10/23 22:02	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/09/23 09:46	03/10/23 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	03/09/23 09:46	03/10/23 22:02	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-69

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-32

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	03/09/23 09:46	03/10/23 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	<0.00404	U	0.00404		mg/Kg			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/07/23 02:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:49	03/07/23 02:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:49	03/07/23 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/06/23 11:49	03/07/23 02:10	1
o-Terphenyl	123		70 - 130				03/06/23 11:49	03/07/23 02:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.4		4.99		mg/Kg			03/07/23 23:21	1

Client Sample ID: BH-70

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-33

Matrix: Solid

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		03/09/23 09:46	03/10/23 22:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 22:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 22:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 22:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 22:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	03/09/23 09:46	03/10/23 22:28	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/09/23 09:46	03/10/23 22:28	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			03/13/23 17:28	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			03/07/23 14:01	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-70

Lab Sample ID: 880-25471-33

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/06/23 11:49	03/07/23 02:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 02:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				03/06/23 11:49	03/07/23 02:31	1
o-Terphenyl	114		70 - 130				03/06/23 11:49	03/07/23 02:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	187		4.95		mg/Kg			03/07/23 23:27	1

Client Sample ID: BH-71

Lab Sample ID: 880-25471-34

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:46	03/10/23 22:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 22:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 22:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 22:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:46	03/10/23 22:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:46	03/10/23 22:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				03/09/23 09:46	03/10/23 22:54	1
1,4-Difluorobenzene (Surr)	109		70 - 130				03/09/23 09:46	03/10/23 22:54	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			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/07/23 02:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 02:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				03/06/23 11:49	03/07/23 02:53	1
o-Terphenyl	104		70 - 130				03/06/23 11:49	03/07/23 02:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-71

Lab Sample ID: 880-25471-34

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.5		5.04		mg/Kg			03/07/23 23:45	1

Client Sample ID: BH-73

Lab Sample ID: 880-25471-35

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:46	03/10/23 23:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 23:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 23:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/09/23 09:46	03/10/23 23:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 23:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/09/23 09:46	03/10/23 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130				03/09/23 09:46	03/10/23 23:20	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/09/23 09:46	03/10/23 23:20	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			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/07/23 03:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 03:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/06/23 11:49	03/07/23 03:14	1
o-Terphenyl	121		70 - 130				03/06/23 11:49	03/07/23 03:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	461		4.98		mg/Kg			03/07/23 23:52	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-74

Lab Sample ID: 880-25471-36

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:59	03/11/23 03:15	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		03/09/23 09:59	03/11/23 03:15	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		03/09/23 09:59	03/11/23 03:15	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		03/09/23 09:59	03/11/23 03:15	1
o-Xylene	<0.00201	U F2 F1	0.00201		mg/Kg		03/09/23 09:59	03/11/23 03:15	1
Xylenes, Total	<0.00402	U F2 F1	0.00402		mg/Kg		03/09/23 09:59	03/11/23 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	03/09/23 09:59	03/11/23 03:15	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/09/23 09:59	03/11/23 03:15	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			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/07/23 03:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 03:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	03/06/23 11:49	03/07/23 03:36	1
o-Terphenyl	103		70 - 130	03/06/23 11:49	03/07/23 03:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		4.99		mg/Kg			03/07/23 23:58	1

Client Sample ID: BH-75

Lab Sample ID: 880-25471-37

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:59	03/11/23 03:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:59	03/11/23 03:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:59	03/11/23 03:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/09/23 09:59	03/11/23 03:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/09/23 09:59	03/11/23 03:41	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/09/23 09:59	03/11/23 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	03/09/23 09:59	03/11/23 03:41	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-75

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-37

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	03/09/23 09:59	03/11/23 03:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/07/23 03:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 03:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 03:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				03/06/23 11:49	03/07/23 03:57	1
o-Terphenyl	112		70 - 130				03/06/23 11:49	03/07/23 03:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		5.04		mg/Kg			03/08/23 00:04	1

Client Sample ID: BH-76

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-38

Matrix: Solid

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		03/09/23 09:59	03/11/23 04:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 04:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 04:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 04:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 04:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	03/09/23 09:59	03/11/23 04:07	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/09/23 09:59	03/11/23 04:07	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			03/13/23 17:28	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			03/07/23 14:01	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-76

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-38

Matrix: Solid

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		03/06/23 11:49	03/07/23 04:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:49	03/07/23 04:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:49	03/07/23 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				03/06/23 11:49	03/07/23 04:18	1
o-Terphenyl	105		70 - 130				03/06/23 11:49	03/07/23 04:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	177		5.00		mg/Kg			03/08/23 00:10	1

Client Sample ID: BH-80

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-39

Matrix: Solid

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		03/09/23 09:59	03/11/23 04:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 04:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 04:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 04:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 04:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 04:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				03/09/23 09:59	03/11/23 04:34	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/09/23 09:59	03/11/23 04:34	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			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/07/23 04:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 04:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:49	03/07/23 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				03/06/23 11:49	03/07/23 04:41	1
o-Terphenyl	106		70 - 130				03/06/23 11:49	03/07/23 04:41	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-80

Lab Sample ID: 880-25471-39

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.7		4.98		mg/Kg			03/08/23 00:16	1

Client Sample ID: BH-83

Lab Sample ID: 880-25471-40

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:59	03/11/23 04:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 04:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 04:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/09/23 09:59	03/11/23 04:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 04:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/09/23 09:59	03/11/23 04:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				03/09/23 09:59	03/11/23 04:59	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/09/23 09:59	03/11/23 04:59	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			03/13/23 17:28	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			03/07/23 14:01	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		03/06/23 11:49	03/07/23 05:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:49	03/07/23 05:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:49	03/07/23 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				03/06/23 11:49	03/07/23 05:02	1
o-Terphenyl	104		70 - 130				03/06/23 11:49	03/07/23 05:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	206		4.97		mg/Kg			03/08/23 00:22	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-84

Lab Sample ID: 880-25471-41

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:59	03/11/23 05:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 05:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 05:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 05:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 05:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	03/09/23 09:59	03/11/23 05:26	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/09/23 09:59	03/11/23 05:26	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			03/13/23 17:28	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			03/07/23 14:15	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		03/06/23 11:54	03/06/23 23:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/06/23 23:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/06/23 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	03/06/23 11:54	03/06/23 23:21	1
o-Terphenyl	109		70 - 130	03/06/23 11:54	03/06/23 23:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144	F1	4.95		mg/Kg			03/08/23 01:12	1

Client Sample ID: BH-85

Lab Sample ID: 880-25471-42

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:59	03/11/23 05:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:59	03/11/23 05:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:59	03/11/23 05:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/09/23 09:59	03/11/23 05:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:59	03/11/23 05:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/09/23 09:59	03/11/23 05:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	03/09/23 09:59	03/11/23 05:52	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-85

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-42

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	03/09/23 09:59	03/11/23 05:52	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			03/13/23 17:28	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			03/07/23 14:15	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		03/06/23 11:54	03/06/23 23:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/06/23 23:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/06/23 23:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/06/23 11:54	03/06/23 23:43	1
o-Terphenyl	108		70 - 130				03/06/23 11:54	03/06/23 23:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.2		4.99		mg/Kg			03/08/23 01:30	1

Client Sample ID: BH-86

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-43

Matrix: Solid

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		03/09/23 09:59	03/11/23 06:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 06:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 06:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/09/23 09:59	03/11/23 06:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 06:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/09/23 09:59	03/11/23 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/09/23 09:59	03/11/23 06:19	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/09/23 09:59	03/11/23 06:19	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			03/13/23 17:28	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			03/07/23 14:15	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-86

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-43

Matrix: Solid

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		03/06/23 11:54	03/07/23 00:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/07/23 00:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/07/23 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				03/06/23 11:54	03/07/23 00:04	1
o-Terphenyl	108		70 - 130				03/06/23 11:54	03/07/23 00:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		4.97		mg/Kg			03/08/23 01:36	1

Client Sample ID: BH-87

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-44

Matrix: Solid

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		03/09/23 09:59	03/11/23 06:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 06:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 06:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 06:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 06:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 06:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				03/09/23 09:59	03/11/23 06:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130				03/09/23 09:59	03/11/23 06:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/13/23 17:28	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			03/07/23 14:15	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		03/06/23 11:54	03/07/23 00:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 00:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				03/06/23 11:54	03/07/23 00:24	1
o-Terphenyl	110		70 - 130				03/06/23 11:54	03/07/23 00:24	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-87

Lab Sample ID: 880-25471-44

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	473		5.00		mg/Kg			03/08/23 01:42	1

Client Sample ID: BH-88

Lab Sample ID: 880-25471-45

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:59	03/11/23 07:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 07:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 07:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 07:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 07:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 07:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				03/09/23 09:59	03/11/23 07:12	1
1,4-Difluorobenzene (Surr)	94		70 - 130				03/09/23 09:59	03/11/23 07:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/13/23 17:28	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			03/07/23 14:15	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		03/06/23 11:54	03/07/23 00:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 00:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				03/06/23 11:54	03/07/23 00:44	1
o-Terphenyl	111		70 - 130				03/06/23 11:54	03/07/23 00:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.00		mg/Kg			03/08/23 01:49	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-89

Lab Sample ID: 880-25471-46

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:59	03/11/23 08:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 08:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 08:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/09/23 09:59	03/11/23 08:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 08:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/09/23 09:59	03/11/23 08:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	03/09/23 09:59	03/11/23 08:59	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/09/23 09:59	03/11/23 08:59	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			03/13/23 17:28	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			03/07/23 14:15	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		03/06/23 11:54	03/07/23 01:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 01:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 01:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	03/06/23 11:54	03/07/23 01:04	1
o-Terphenyl	108		70 - 130	03/06/23 11:54	03/07/23 01:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		4.96		mg/Kg			03/08/23 02:07	1

Client Sample ID: BH-90

Lab Sample ID: 880-25471-47

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:59	03/11/23 09:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:59	03/11/23 09:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:59	03/11/23 09:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/09/23 09:59	03/11/23 09:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:59	03/11/23 09:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/09/23 09:59	03/11/23 09:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	03/09/23 09:59	03/11/23 09:26	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-90

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-47

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	03/09/23 09:59	03/11/23 09:26	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			03/13/23 17:28	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			03/07/23 14:15	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		03/06/23 11:54	03/07/23 01:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 01:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 01:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/06/23 11:54	03/07/23 01:45	1
o-Terphenyl	107		70 - 130				03/06/23 11:54	03/07/23 01:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		4.97		mg/Kg			03/08/23 02:13	1

Client Sample ID: BH-91

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-48

Matrix: Solid

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		03/09/23 09:59	03/11/23 09:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 09:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 09:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/09/23 09:59	03/11/23 09:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 09:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/09/23 09:59	03/11/23 09:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	03/09/23 09:59	03/11/23 09:53	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/09/23 09:59	03/11/23 09:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/13/23 17:28	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			03/07/23 14:15	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-91

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-48

Matrix: Solid

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		03/06/23 11:54	03/07/23 02:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/07/23 02:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/07/23 02:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/06/23 11:54	03/07/23 02:05	1
o-Terphenyl	105		70 - 130				03/06/23 11:54	03/07/23 02:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.3		4.98		mg/Kg			03/08/23 02:19	1

Client Sample ID: BH-95

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-49

Matrix: Solid

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		03/09/23 09:59	03/11/23 10:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 10:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 10:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 10:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 10:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 10:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				03/09/23 09:59	03/11/23 10:20	1
1,4-Difluorobenzene (Surr)	95		70 - 130				03/09/23 09:59	03/11/23 10:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/13/23 17:28	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			03/07/23 14:15	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		03/06/23 11:54	03/07/23 02:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/07/23 02:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/07/23 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/06/23 11:54	03/07/23 02:26	1
o-Terphenyl	103		70 - 130				03/06/23 11:54	03/07/23 02:26	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-95

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-49

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.8		5.00		mg/Kg			03/08/23 02:25	1

Client Sample ID: BH-96

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-50

Matrix: Solid

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		03/09/23 09:59	03/11/23 10:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 10:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 10:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 10:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 10:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 10:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				03/09/23 09:59	03/11/23 10:47	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/09/23 09:59	03/11/23 10:47	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			03/13/23 17:28	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			03/07/23 14:15	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		03/06/23 11:54	03/07/23 02:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 02:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/06/23 11:54	03/07/23 02:46	1
o-Terphenyl	108		70 - 130				03/06/23 11:54	03/07/23 02:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.2		5.05		mg/Kg			03/08/23 02:32	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-97

Lab Sample ID: 880-25471-51

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:59	03/11/23 11:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/09/23 09:59	03/11/23 11:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/09/23 09:59	03/11/23 11:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/09/23 09:59	03/11/23 11:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/09/23 09:59	03/11/23 11:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/09/23 09:59	03/11/23 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	03/09/23 09:59	03/11/23 11:14	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/09/23 09:59	03/11/23 11:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/13/23 17:28	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			03/07/23 14:15	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		03/06/23 11:54	03/07/23 03:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 03:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/06/23 11:54	03/07/23 03:07	1
o-Terphenyl	106		70 - 130	03/06/23 11:54	03/07/23 03:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		4.98		mg/Kg			03/08/23 02:38	1

Client Sample ID: BH-98

Lab Sample ID: 880-25471-52

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:59	03/11/23 11:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 11:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 11:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 11:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 09:59	03/11/23 11:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 09:59	03/11/23 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	03/09/23 09:59	03/11/23 11:41	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-98

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-52

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	03/09/23 09:59	03/11/23 11:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/13/23 17:28	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			03/07/23 14:15	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		03/06/23 11:54	03/07/23 03:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/07/23 03:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/07/23 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				03/06/23 11:54	03/07/23 03:28	1
o-Terphenyl	110		70 - 130				03/06/23 11:54	03/07/23 03:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.6		5.05		mg/Kg			03/08/23 02:56	1

Client Sample ID: BH-101

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Lab Sample ID: 880-25471-53

Matrix: Solid

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		03/09/23 09:59	03/11/23 12:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 12:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 12:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/09/23 09:59	03/11/23 12:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 12:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/09/23 09:59	03/11/23 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	03/09/23 09:59	03/11/23 12:07	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/09/23 09:59	03/11/23 12:07	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			03/13/23 17:28	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			03/07/23 14:15	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-101

Lab Sample ID: 880-25471-53

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/06/23 11:54	03/07/23 03:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 03:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 03:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/06/23 11:54	03/07/23 03:48	1
o-Terphenyl	106		70 - 130				03/06/23 11:54	03/07/23 03:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.1		4.96		mg/Kg			03/08/23 03:02	1

Client Sample ID: BH-102

Lab Sample ID: 880-25471-54

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:59	03/11/23 12:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:59	03/11/23 12:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:59	03/11/23 12:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/09/23 09:59	03/11/23 12:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/09/23 09:59	03/11/23 12:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/09/23 09:59	03/11/23 12:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				03/09/23 09:59	03/11/23 12:34	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/09/23 09:59	03/11/23 12:34	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			03/13/23 17:28	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			03/07/23 14:15	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		03/06/23 11:54	03/07/23 04:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 04:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/06/23 11:54	03/07/23 04:08	1
o-Terphenyl	107		70 - 130				03/06/23 11:54	03/07/23 04:08	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-102

Lab Sample ID: 880-25471-54

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		5.00		mg/Kg			03/08/23 03:21	1

Client Sample ID: BH-39

Lab Sample ID: 880-25471-55

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 09:59	03/11/23 13:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 13:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 13:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/09/23 09:59	03/11/23 13:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 13:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/09/23 09:59	03/11/23 13:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				03/09/23 09:59	03/11/23 13:00	1
1,4-Difluorobenzene (Surr)	86		70 - 130				03/09/23 09:59	03/11/23 13:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/13/23 17:28	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			03/07/23 14:15	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		03/06/23 11:54	03/07/23 04:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/07/23 04:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/07/23 04:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				03/06/23 11:54	03/07/23 04:29	1
o-Terphenyl	107		70 - 130				03/06/23 11:54	03/07/23 04:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.9		4.97		mg/Kg			03/08/23 03:27	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-72

Lab Sample ID: 880-25471-56

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

Sample Depth: 4 ft

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		03/09/23 10:01	03/10/23 01:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 10:01	03/10/23 01:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 10:01	03/10/23 01:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/23 10:01	03/10/23 01:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 10:01	03/10/23 01:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 10:01	03/10/23 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/09/23 10:01	03/10/23 01:29	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/09/23 10:01	03/10/23 01:29	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			03/10/23 08:07	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			03/07/23 14:15	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		03/06/23 11:54	03/07/23 04:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 04:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 11:54	03/07/23 04:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/06/23 11:54	03/07/23 04:49	1
o-Terphenyl	105		70 - 130	03/06/23 11:54	03/07/23 04:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	529		4.95		mg/Kg			03/08/23 03:33	1

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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)
880-25471-1	BH-3	142 S1+	81
880-25471-2	BH-4	128	79
880-25471-3	BH-10	75	58 S1-
880-25471-4	BH-14	134 S1+	78
880-25471-5	BH-16	135 S1+	74
880-25471-6	BH-17	128	79
880-25471-7	BH-18	140 S1+	77
880-25471-8	BH-20	134 S1+	72
880-25471-9	BH-22	142 S1+	78
880-25471-10	BH-23	144 S1+	86
880-25471-11	BH-24	146 S1+	84
880-25471-12	BH-25	141 S1+	78
880-25471-13	BH-29	145 S1+	83
880-25471-14	BH-30	107	64 S1-
880-25471-15	BH-32	134 S1+	85
880-25471-16	BH-35	77	91
880-25471-16 MS	BH-35	64 S1-	87
880-25471-16 MSD	BH-35	82	103
880-25471-17	BH-36	80	92
880-25471-18	BH-37	84	96
880-25471-19	BH-38	68 S1-	90
880-25471-20	BH-40	84	89
880-25471-21	BH-42	90	91
880-25471-22	BH-43	91	97
880-25471-23	BH-45	83	94
880-25471-24	BH-47	76	88
880-25471-25	BH-49	85	91
880-25471-26	BH-52	82	91
880-25471-27	BH-53	76	88
880-25471-28	BH-56	74	85
880-25471-29	BH-62	85	90
880-25471-30	BH-66	83	91
880-25471-31	BH-68	68 S1-	81
880-25471-32	BH-69	87	88
880-25471-33	BH-70	85	96
880-25471-34	BH-71	91	109
880-25471-35	BH-73	70	107
880-25471-36	BH-74	81	86
880-25471-36 MS	BH-74	85	90
880-25471-36 MSD	BH-74	85	99
880-25471-37	BH-75	81	88
880-25471-38	BH-76	90	87
880-25471-39	BH-80	92	100
880-25471-40	BH-83	94	100
880-25471-41	BH-84	73	87
880-25471-42	BH-85	84	97
880-25471-43	BH-86	91	102
880-25471-44	BH-87	87	99
880-25471-45	BH-88	78	94

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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	DFBZ1
		(70-130)	(70-130)
880-25471-46	BH-89	84	96
880-25471-47	BH-90	85	97
880-25471-48	BH-91	81	95
880-25471-49	BH-95	87	95
880-25471-50	BH-96	84	100
880-25471-51	BH-97	89	96
880-25471-52	BH-98	81	87
880-25471-53	BH-101	81	98
880-25471-54	BH-102	88	90
880-25471-55	BH-39	88	86
880-25471-56	BH-72	117	104
LCS 880-48184/1-A	Lab Control Sample	118	86
LCS 880-48185/1-A	Lab Control Sample	76	94
LCS 880-48190/1-A	Lab Control Sample	86	98
LCS 880-48191/1-A	Lab Control Sample	115	106
LCSD 880-48184/2-A	Lab Control Sample Dup	115	83
LCSD 880-48185/2-A	Lab Control Sample Dup	79	98
LCSD 880-48190/2-A	Lab Control Sample Dup	87	99
LCSD 880-48191/2-A	Lab Control Sample Dup	118	112
MB 880-48002/5-A	Method Blank	95	81
MB 880-48184/5-A	Method Blank	106	74
MB 880-48185/5-A	Method Blank	54 S1-	92
MB 880-48190/5-A	Method Blank	54 S1-	92
MB 880-48191/5-A	Method Blank	104	103

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	OTPH1
		(70-130)	(70-130)
880-25471-1	BH-3	111	118
880-25471-1 MS	BH-3	98	101
880-25471-1 MSD	BH-3	113	109
880-25471-2	BH-4	100	106
880-25471-3	BH-10	93	101
880-25471-4	BH-14	110	110
880-25471-5	BH-16	88	96
880-25471-6	BH-17	106	106
880-25471-7	BH-18	97	108
880-25471-8	BH-20	95	107
880-25471-9	BH-22	94	107
880-25471-10	BH-23	109	117
880-25471-11	BH-24	92	104
880-25471-12	BH-25	91	101
880-25471-13	BH-29	110	118
880-25471-14	BH-30	93	105

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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)
880-25471-15	BH-32	93	107
880-25471-16	BH-35	90	104
880-25471-17	BH-36	105	115
880-25471-18	BH-37	110	121
880-25471-19	BH-38	94	109
880-25471-20	BH-40	91	103
880-25471-21	BH-42	89	97
880-25471-21 MS	BH-42	101	100
880-25471-21 MSD	BH-42	95	95
880-25471-22	BH-43	94	106
880-25471-23	BH-45	89	101
880-25471-24	BH-47	83	91
880-25471-25	BH-49	89	100
880-25471-26	BH-52	105	117
880-25471-27	BH-53	94	105
880-25471-28	BH-56	93	105
880-25471-29	BH-62	93	104
880-25471-30	BH-66	111	124
880-25471-31	BH-68	108	121
880-25471-32	BH-69	110	123
880-25471-33	BH-70	104	114
880-25471-34	BH-71	91	104
880-25471-35	BH-73	110	121
880-25471-36	BH-74	91	103
880-25471-37	BH-75	98	112
880-25471-38	BH-76	92	105
880-25471-39	BH-80	93	106
880-25471-40	BH-83	93	104
880-25471-41	BH-84	110	109
880-25471-42	BH-85	109	108
880-25471-43	BH-86	111	108
880-25471-44	BH-87	113	110
880-25471-45	BH-88	114	111
880-25471-46	BH-89	110	108
880-25471-47	BH-90	109	107
880-25471-48	BH-91	109	105
880-25471-49	BH-95	106	103
880-25471-50	BH-96	110	108
880-25471-51	BH-97	108	106
880-25471-52	BH-98	113	110
880-25471-53	BH-101	107	106
880-25471-54	BH-102	110	107
880-25471-55	BH-39	108	107
880-25471-56	BH-72	108	105
LCS 880-47921/2-A	Lab Control Sample	125	130
LCS 880-47923/2-A	Lab Control Sample	84	93
LCS 880-47924/2-A	Lab Control Sample	96	89
LCSD 880-47921/3-A	Lab Control Sample Dup	119	121
LCSD 880-47923/3-A	Lab Control Sample Dup	82	92
LCSD 880-47924/3-A	Lab Control Sample Dup	94	88

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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)
MB 880-47921/1-A	Method Blank	112	125
MB 880-47923/1-A	Method Blank	110	127
MB 880-47924/1-A	Method Blank	121	122
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48002/5-A

Matrix: Solid

Analysis Batch: 48179

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48002

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/23 09:28	03/09/23 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/23 09:28	03/09/23 11:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/23 09:28	03/09/23 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/23 09:28	03/09/23 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/23 09:28	03/09/23 11:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/23 09:28	03/09/23 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/07/23 09:28	03/09/23 11:39	1
1,4-Difluorobenzene (Surr)	81		70 - 130	03/07/23 09:28	03/09/23 11:39	1

Lab Sample ID: MB 880-48184/5-A

Matrix: Solid

Analysis Batch: 48179

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48184

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/09/23 22:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/09/23 22:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/09/23 22:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/23 09:39	03/09/23 22:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:39	03/09/23 22:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/23 09:39	03/09/23 22:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/09/23 09:39	03/09/23 22:50	1
1,4-Difluorobenzene (Surr)	74		70 - 130	03/09/23 09:39	03/09/23 22:50	1

Lab Sample ID: LCS 880-48184/1-A

Matrix: Solid

Analysis Batch: 48179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08720		mg/Kg		87	70 - 130
Toluene	0.100	0.08998		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.09355		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1931		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09858		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-48184/2-A

Matrix: Solid

Analysis Batch: 48179

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48184

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08417		mg/Kg		84	70 - 130	4	35

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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

Lab Sample ID: LCSD 880-48184/2-A

Matrix: Solid

Analysis Batch: 48179

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48184

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08775		mg/Kg		88	70 - 130	3	35
Ethylbenzene	0.100	0.08979		mg/Kg		90	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1848		mg/Kg		92	70 - 130	4	35
o-Xylene	0.100	0.09427		mg/Kg		94	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: MB 880-48185/5-A

Matrix: Solid

Analysis Batch: 48287

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48185

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 13:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 13:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 13:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/23 09:46	03/10/23 13:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:46	03/10/23 13:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/23 09:46	03/10/23 13:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130	03/09/23 09:46	03/10/23 13:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/09/23 09:46	03/10/23 13:20	1

Lab Sample ID: LCS 880-48185/1-A

Matrix: Solid

Analysis Batch: 48287

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07420		mg/Kg		74	70 - 130
Toluene	0.100	0.07967		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.07664		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1568		mg/Kg		78	70 - 130
o-Xylene	0.100	0.07658		mg/Kg		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-48185/2-A

Matrix: Solid

Analysis Batch: 48287

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48185

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07867		mg/Kg		79	70 - 130	6	35
Toluene	0.100	0.08221		mg/Kg		82	70 - 130	3	35
Ethylbenzene	0.100	0.08089		mg/Kg		81	70 - 130	5	35

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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

Lab Sample ID: LCSD 880-48185/2-A

Matrix: Solid

Analysis Batch: 48287

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48185

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.1686		mg/Kg		84	70 - 130	7	35
o-Xylene	0.100	0.08407		mg/Kg		84	70 - 130	9	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	79		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 880-25471-16 MS

Matrix: Solid

Analysis Batch: 48287

Client Sample ID: BH-35

Prep Type: Total/NA

Prep Batch: 48185

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	<0.00201	U F1	0.0998	0.06213	F1	mg/Kg		62	70 - 130		
Toluene	<0.00201	U F1	0.0998	0.06347	F1	mg/Kg		64	70 - 130		
Ethylbenzene	<0.00201	U F1	0.0998	0.06539	F1	mg/Kg		66	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1324	F1	mg/Kg		66	70 - 130		
o-Xylene	<0.00201	U F1	0.0998	0.06047	F1	mg/Kg		61	70 - 130		

Lab Sample ID: 880-25471-16 MSD

Matrix: Solid

Analysis Batch: 48287

Client Sample ID: BH-35

Prep Type: Total/NA

Prep Batch: 48185

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
Benzene	<0.00201	U F1	0.100	0.07552		mg/Kg		75	70 - 130	19	35
Toluene	<0.00201	U F1	0.100	0.07329		mg/Kg		73	70 - 130	14	35
Ethylbenzene	<0.00201	U F1	0.100	0.07260		mg/Kg		72	70 - 130	10	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1508		mg/Kg		75	70 - 130	13	35
o-Xylene	<0.00201	U F1	0.100	0.07453		mg/Kg		74	70 - 130	21	35
								</			

Lab Sample ID: MB 880-48190/5-A

Matrix: Solid

Analysis Batch: 48287

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48190

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 02:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 02:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 02:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/23 09:59	03/11/23 02:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 09:59	03/11/23 02:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/23 09:59	03/11/23 02:49	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130	03/09/23 09:59	03/11/23 02:49	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/09/23 09:59	03/11/23 02:49	1

Lab Sample ID: LCS 880-48190/1-A

Matrix: Solid

Analysis Batch: 48287

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07603		mg/Kg		76	70 - 130
Toluene	0.100	0.08251		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.07946		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1616		mg/Kg		81	70 - 130
o-Xylene	0.100	0.08283		mg/Kg		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-48190/2-A

Matrix: Solid

Analysis Batch: 48287

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48190

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07994		mg/Kg		80	70 - 130	5	35
Toluene	0.100	0.08009		mg/Kg		80	70 - 130	3	35
Ethylbenzene	0.100	0.07916		mg/Kg		79	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1632		mg/Kg		82	70 - 130	1	35
o-Xylene	0.100	0.08107		mg/Kg		81	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-25471-36 MS

Matrix: Solid

Analysis Batch: 48287

Client Sample ID: BH-74

Prep Type: Total/NA

Prep Batch: 48190

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.100	0.04619	F1	mg/Kg		46	70 - 130
Toluene	<0.00201	U F1	0.100	0.04943	F1	mg/Kg		49	70 - 130
Ethylbenzene	<0.00201	U F1	0.100	0.04816	F1	mg/Kg		48	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.09861	F1	mg/Kg		49	70 - 130
o-Xylene	<0.00201	U F2 F1	0.100	0.05258	F1	mg/Kg		52	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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

Lab Sample ID: 880-25471-36 MSD

Matrix: Solid

Analysis Batch: 48287

Client Sample ID: BH-74

Prep Type: Total/NA

Prep Batch: 48190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0990	0.03465	F1	mg/Kg		35	70 - 130	29	35
Toluene	<0.00201	U F1	0.0990	0.03568	F1	mg/Kg		36	70 - 130	32	35
Ethylbenzene	<0.00201	U F1	0.0990	0.03588	F1	mg/Kg		36	70 - 130	29	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.07273	F1	mg/Kg		37	70 - 130	30	35
o-Xylene	<0.00201	U F2 F1	0.0990	0.02458	F2 F1	mg/Kg		25	70 - 130	73	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-48191/5-A

Matrix: Solid

Analysis Batch: 48223

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48191

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/23 10:01	03/09/23 17:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 10:01	03/09/23 17:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 10:01	03/09/23 17:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/23 10:01	03/09/23 17:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 10:01	03/09/23 17:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/23 10:01	03/09/23 17:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/09/23 10:01	03/09/23 17:03	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/09/23 10:01	03/09/23 17:03	1

Lab Sample ID: LCS 880-48191/1-A

Matrix: Solid

Analysis Batch: 48223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1087		mg/Kg		109	70 - 130
Toluene	0.100	0.1065		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2391		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1142		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-48191/2-A

Matrix: Solid

Analysis Batch: 48223

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48191

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1081		mg/Kg		108	70 - 130	1	35
Toluene	0.100	0.1053		mg/Kg		105	70 - 130	1	35

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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

Lab Sample ID: LCSD 880-48191/2-A

Matrix: Solid

Analysis Batch: 48223

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48191

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.1085		mg/Kg		109	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2331		mg/Kg		117	70 - 130	3	35
o-Xylene	0.100	0.1119		mg/Kg		112	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

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

Lab Sample ID: MB 880-47921/1-A

Matrix: Solid

Analysis Batch: 47856

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47921

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		03/06/23 11:45	03/06/23 19:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/06/23 19:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:45	03/06/23 19:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/06/23 11:45	03/06/23 19:55	1
o-Terphenyl	125		70 - 130	03/06/23 11:45	03/06/23 19:55	1

Lab Sample ID: LCS 880-47921/2-A

Matrix: Solid

Analysis Batch: 47856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47921

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	523.5	*-	mg/Kg		52	70 - 130
Diesel Range Organics (Over C10-C28)	1000	968.2		mg/Kg		97	70 - 130

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

Lab Sample ID: LCSD 880-47921/3-A

Matrix: Solid

Analysis Batch: 47856

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47921

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	944.2	*1	mg/Kg		94	70 - 130	57	20
Diesel Range Organics (Over C10-C28)	1000	903.4		mg/Kg		90	70 - 130	7	20

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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

Lab Sample ID: LCSD 880-47921/3-A

Matrix: Solid

Analysis Batch: 47856

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47921

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 880-25471-1 MS

Matrix: Solid

Analysis Batch: 47856

Client Sample ID: BH-3

Prep Type: Total/NA

Prep Batch: 47921

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2 *- *1	998	795.6		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)	82.3	F1	998	768.0	F1	mg/Kg		69	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: 880-25471-1 MSD

Matrix: Solid

Analysis Batch: 47856

Client Sample ID: BH-3

Prep Type: Total/NA

Prep Batch: 47921

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2 *- *1	999	1043	F2	mg/Kg		102	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	82.3	F1	999	848.0		mg/Kg		77	70 - 130	10	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	109		70 - 130								

Lab Sample ID: MB 880-47923/1-A

Matrix: Solid

Analysis Batch: 47858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47923

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		03/06/23 11:49	03/06/23 19:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:49	03/06/23 19:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:49	03/06/23 19:55	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	110		70 - 130				03/06/23 11:49	03/06/23 19:55	1
o-Terphenyl	127		70 - 130				03/06/23 11:49	03/06/23 19:55	1

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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

Lab Sample ID: LCS 880-47923/2-A

Matrix: Solid

Analysis Batch: 47858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47923

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	872.3		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	884.8		mg/Kg		88	70 - 130		
Surrogate	LCS	LCS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	84		70 - 130								
o-Terphenyl	93		70 - 130								

Lab Sample ID: LCSD 880-47923/3-A

Matrix: Solid

Analysis Batch: 47858

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47923

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	920.1		mg/Kg		92	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	903.7		mg/Kg		90	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	92		70 - 130								

Lab Sample ID: 880-25471-21 MS

Matrix: Solid

Analysis Batch: 47858

Client Sample ID: BH-42

Prep Type: Total/NA

Prep Batch: 47923

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	875.3		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	972.8		mg/Kg		98	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	100		70 - 130								

Lab Sample ID: 880-25471-21 MSD

Matrix: Solid

Analysis Batch: 47858

Client Sample ID: BH-42

Prep Type: Total/NA

Prep Batch: 47923

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	818.7		mg/Kg		80	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	927.7		mg/Kg		93	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	95		70 - 130								

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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

Lab Sample ID: 880-25471-21 MSD

Matrix: Solid

Analysis Batch: 47858

Client Sample ID: BH-42

Prep Type: Total/NA

Prep Batch: 47923

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	95		70 - 130

Lab Sample ID: MB 880-47924/1-A

Matrix: Solid

Analysis Batch: 47860

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47924

Analyte	MB	MB								
	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/06/23 20:08	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/06/23 20:08	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 11:54	03/06/23 20:08	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	121		70 - 130				03/06/23 11:54	03/06/23 20:08	1	
<i>o</i> -Terphenyl	122		70 - 130				03/06/23 11:54	03/06/23 20:08	1	

Lab Sample ID: LCS 880-47924/2-A

Matrix: Solid

Analysis Batch: 47860

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47924

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	829.7		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	838.8		mg/Kg		84	70 - 130		
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
<i>o</i> -Terphenyl	89		70 - 130								

Lab Sample ID: LCSD 880-47924/3-A

Matrix: Solid

Analysis Batch: 47860

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47924

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	844.6		mg/Kg		84	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	834.7		mg/Kg		83	70 - 130	0	20
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
<i>o</i> -Terphenyl	88		70 - 130								

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47973/1-A

Matrix: Solid

Analysis Batch: 48053

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			03/07/23 17:41	1

Lab Sample ID: LCS 880-47973/2-A

Matrix: Solid

Analysis Batch: 48053

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

Lab Sample ID: LCSD 880-47973/3-A

Matrix: Solid

Analysis Batch: 48053

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	247.4		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-25471-1 MS

Matrix: Solid

Analysis Batch: 48053

Client Sample ID: BH-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	441	F1	248	634.5	F1	mg/Kg		78	90 - 110

Lab Sample ID: 880-25471-1 MSD

Matrix: Solid

Analysis Batch: 48053

Client Sample ID: BH-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	441	F1	248	635.9	F1	mg/Kg		79	90 - 110	0	20

Lab Sample ID: 880-25471-11 MS

Matrix: Solid

Analysis Batch: 48053

Client Sample ID: BH-24

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	261		251	496.5		mg/Kg		94	90 - 110

Lab Sample ID: 880-25471-11 MSD

Matrix: Solid

Analysis Batch: 48053

Client Sample ID: BH-24

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	261		251	497.0		mg/Kg		94	90 - 110	0	20

Lab Sample ID: MB 880-47974/1-A

Matrix: Solid

Analysis Batch: 48092

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			03/07/23 21:17	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-47974/2-A

Matrix: Solid

Analysis Batch: 48092

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.3		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-47974/3-A

Matrix: Solid

Analysis Batch: 48092

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	249.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-25471-21 MS

Matrix: Solid

Analysis Batch: 48092

Client Sample ID: BH-42

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	317		251	554.7		mg/Kg		95	90 - 110

Lab Sample ID: 880-25471-21 MSD

Matrix: Solid

Analysis Batch: 48092

Client Sample ID: BH-42

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	317		251	555.5		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-25471-31 MS

Matrix: Solid

Analysis Batch: 48092

Client Sample ID: BH-68

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	209		250	457.0		mg/Kg		99	90 - 110

Lab Sample ID: 880-25471-31 MSD

Matrix: Solid

Analysis Batch: 48092

Client Sample ID: BH-68

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	209		250	457.4		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-47975/1-A

Matrix: Solid

Analysis Batch: 48101

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			03/08/23 00:53	1

Lab Sample ID: LCS 880-47975/2-A

Matrix: Solid

Analysis Batch: 48101

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.8		mg/Kg		105	90 - 110

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-47975/3-A
Matrix: Solid
Analysis Batch: 48101

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	261.2		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-25471-41 MS
Matrix: Solid
Analysis Batch: 48101

Client Sample ID: BH-84
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	144	F1	248	258.7	F1	mg/Kg		46	90 - 110		

Lab Sample ID: 880-25471-41 MSD
Matrix: Solid
Analysis Batch: 48101

Client Sample ID: BH-84
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	144	F1	248	260.0	F1	mg/Kg		47	90 - 110	1	20

Lab Sample ID: 880-25471-51 MS
Matrix: Solid
Analysis Batch: 48101

Client Sample ID: BH-97
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	117		249	357.2		mg/Kg		97	90 - 110		

Lab Sample ID: 880-25471-51 MSD
Matrix: Solid
Analysis Batch: 48101

Client Sample ID: BH-97
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	117		249	345.2		mg/Kg		92	90 - 110	3	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

GC VOA

Prep Batch: 48002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48002/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 48179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-1	BH-3	Total/NA	Solid	8021B	48184
880-25471-2	BH-4	Total/NA	Solid	8021B	48184
880-25471-3	BH-10	Total/NA	Solid	8021B	48184
880-25471-4	BH-14	Total/NA	Solid	8021B	48184
880-25471-5	BH-16	Total/NA	Solid	8021B	48184
880-25471-6	BH-17	Total/NA	Solid	8021B	48184
880-25471-7	BH-18	Total/NA	Solid	8021B	48184
880-25471-8	BH-20	Total/NA	Solid	8021B	48184
880-25471-9	BH-22	Total/NA	Solid	8021B	48184
880-25471-10	BH-23	Total/NA	Solid	8021B	48184
880-25471-11	BH-24	Total/NA	Solid	8021B	48184
880-25471-12	BH-25	Total/NA	Solid	8021B	48184
880-25471-13	BH-29	Total/NA	Solid	8021B	48184
880-25471-14	BH-30	Total/NA	Solid	8021B	48184
880-25471-15	BH-32	Total/NA	Solid	8021B	48184
MB 880-48002/5-A	Method Blank	Total/NA	Solid	8021B	48002
MB 880-48184/5-A	Method Blank	Total/NA	Solid	8021B	48184
LCS 880-48184/1-A	Lab Control Sample	Total/NA	Solid	8021B	48184
LCSD 880-48184/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48184

Prep Batch: 48184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-1	BH-3	Total/NA	Solid	5035	
880-25471-2	BH-4	Total/NA	Solid	5035	
880-25471-3	BH-10	Total/NA	Solid	5035	
880-25471-4	BH-14	Total/NA	Solid	5035	
880-25471-5	BH-16	Total/NA	Solid	5035	
880-25471-6	BH-17	Total/NA	Solid	5035	
880-25471-7	BH-18	Total/NA	Solid	5035	
880-25471-8	BH-20	Total/NA	Solid	5035	
880-25471-9	BH-22	Total/NA	Solid	5035	
880-25471-10	BH-23	Total/NA	Solid	5035	
880-25471-11	BH-24	Total/NA	Solid	5035	
880-25471-12	BH-25	Total/NA	Solid	5035	
880-25471-13	BH-29	Total/NA	Solid	5035	
880-25471-14	BH-30	Total/NA	Solid	5035	
880-25471-15	BH-32	Total/NA	Solid	5035	
MB 880-48184/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48184/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48184/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 48185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-16	BH-35	Total/NA	Solid	5035	
880-25471-17	BH-36	Total/NA	Solid	5035	
880-25471-18	BH-37	Total/NA	Solid	5035	
880-25471-19	BH-38	Total/NA	Solid	5035	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

GC VOA (Continued)

Prep Batch: 48185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-20	BH-40	Total/NA	Solid	5035	
880-25471-21	BH-42	Total/NA	Solid	5035	
880-25471-22	BH-43	Total/NA	Solid	5035	
880-25471-23	BH-45	Total/NA	Solid	5035	
880-25471-24	BH-47	Total/NA	Solid	5035	
880-25471-25	BH-49	Total/NA	Solid	5035	
880-25471-26	BH-52	Total/NA	Solid	5035	
880-25471-27	BH-53	Total/NA	Solid	5035	
880-25471-28	BH-56	Total/NA	Solid	5035	
880-25471-29	BH-62	Total/NA	Solid	5035	
880-25471-30	BH-66	Total/NA	Solid	5035	
880-25471-31	BH-68	Total/NA	Solid	5035	
880-25471-32	BH-69	Total/NA	Solid	5035	
880-25471-33	BH-70	Total/NA	Solid	5035	
880-25471-34	BH-71	Total/NA	Solid	5035	
880-25471-35	BH-73	Total/NA	Solid	5035	
MB 880-48185/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48185/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48185/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25471-16 MS	BH-35	Total/NA	Solid	5035	
880-25471-16 MSD	BH-35	Total/NA	Solid	5035	

Prep Batch: 48190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-36	BH-74	Total/NA	Solid	5035	
880-25471-37	BH-75	Total/NA	Solid	5035	
880-25471-38	BH-76	Total/NA	Solid	5035	
880-25471-39	BH-80	Total/NA	Solid	5035	
880-25471-40	BH-83	Total/NA	Solid	5035	
880-25471-41	BH-84	Total/NA	Solid	5035	
880-25471-42	BH-85	Total/NA	Solid	5035	
880-25471-43	BH-86	Total/NA	Solid	5035	
880-25471-44	BH-87	Total/NA	Solid	5035	
880-25471-45	BH-88	Total/NA	Solid	5035	
880-25471-46	BH-89	Total/NA	Solid	5035	
880-25471-47	BH-90	Total/NA	Solid	5035	
880-25471-48	BH-91	Total/NA	Solid	5035	
880-25471-49	BH-95	Total/NA	Solid	5035	
880-25471-50	BH-96	Total/NA	Solid	5035	
880-25471-51	BH-97	Total/NA	Solid	5035	
880-25471-52	BH-98	Total/NA	Solid	5035	
880-25471-53	BH-101	Total/NA	Solid	5035	
880-25471-54	BH-102	Total/NA	Solid	5035	
880-25471-55	BH-39	Total/NA	Solid	5035	
MB 880-48190/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48190/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48190/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25471-36 MS	BH-74	Total/NA	Solid	5035	
880-25471-36 MSD	BH-74	Total/NA	Solid	5035	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

GC VOA

Prep Batch: 48191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-56	BH-72	Total/NA	Solid	5035	
MB 880-48191/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48191/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48191/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 48223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-56	BH-72	Total/NA	Solid	8021B	48191
MB 880-48191/5-A	Method Blank	Total/NA	Solid	8021B	48191
LCS 880-48191/1-A	Lab Control Sample	Total/NA	Solid	8021B	48191
LCSD 880-48191/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48191

Analysis Batch: 48284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-1	BH-3	Total/NA	Solid	Total BTEX	
880-25471-2	BH-4	Total/NA	Solid	Total BTEX	
880-25471-3	BH-10	Total/NA	Solid	Total BTEX	
880-25471-4	BH-14	Total/NA	Solid	Total BTEX	
880-25471-5	BH-16	Total/NA	Solid	Total BTEX	
880-25471-6	BH-17	Total/NA	Solid	Total BTEX	
880-25471-7	BH-18	Total/NA	Solid	Total BTEX	
880-25471-8	BH-20	Total/NA	Solid	Total BTEX	
880-25471-9	BH-22	Total/NA	Solid	Total BTEX	
880-25471-10	BH-23	Total/NA	Solid	Total BTEX	
880-25471-11	BH-24	Total/NA	Solid	Total BTEX	
880-25471-12	BH-25	Total/NA	Solid	Total BTEX	
880-25471-13	BH-29	Total/NA	Solid	Total BTEX	
880-25471-14	BH-30	Total/NA	Solid	Total BTEX	
880-25471-15	BH-32	Total/NA	Solid	Total BTEX	
880-25471-16	BH-35	Total/NA	Solid	Total BTEX	
880-25471-17	BH-36	Total/NA	Solid	Total BTEX	
880-25471-18	BH-37	Total/NA	Solid	Total BTEX	
880-25471-19	BH-38	Total/NA	Solid	Total BTEX	
880-25471-20	BH-40	Total/NA	Solid	Total BTEX	
880-25471-21	BH-42	Total/NA	Solid	Total BTEX	
880-25471-22	BH-43	Total/NA	Solid	Total BTEX	
880-25471-23	BH-45	Total/NA	Solid	Total BTEX	
880-25471-24	BH-47	Total/NA	Solid	Total BTEX	
880-25471-25	BH-49	Total/NA	Solid	Total BTEX	
880-25471-26	BH-52	Total/NA	Solid	Total BTEX	
880-25471-27	BH-53	Total/NA	Solid	Total BTEX	
880-25471-28	BH-56	Total/NA	Solid	Total BTEX	
880-25471-29	BH-62	Total/NA	Solid	Total BTEX	
880-25471-30	BH-66	Total/NA	Solid	Total BTEX	
880-25471-31	BH-68	Total/NA	Solid	Total BTEX	
880-25471-32	BH-69	Total/NA	Solid	Total BTEX	
880-25471-33	BH-70	Total/NA	Solid	Total BTEX	
880-25471-34	BH-71	Total/NA	Solid	Total BTEX	
880-25471-35	BH-73	Total/NA	Solid	Total BTEX	
880-25471-36	BH-74	Total/NA	Solid	Total BTEX	
880-25471-37	BH-75	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

GC VOA (Continued)

Analysis Batch: 48284 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-38	BH-76	Total/NA	Solid	Total BTEX	
880-25471-39	BH-80	Total/NA	Solid	Total BTEX	
880-25471-40	BH-83	Total/NA	Solid	Total BTEX	
880-25471-41	BH-84	Total/NA	Solid	Total BTEX	
880-25471-42	BH-85	Total/NA	Solid	Total BTEX	
880-25471-43	BH-86	Total/NA	Solid	Total BTEX	
880-25471-44	BH-87	Total/NA	Solid	Total BTEX	
880-25471-45	BH-88	Total/NA	Solid	Total BTEX	
880-25471-46	BH-89	Total/NA	Solid	Total BTEX	
880-25471-47	BH-90	Total/NA	Solid	Total BTEX	
880-25471-48	BH-91	Total/NA	Solid	Total BTEX	
880-25471-49	BH-95	Total/NA	Solid	Total BTEX	
880-25471-50	BH-96	Total/NA	Solid	Total BTEX	
880-25471-51	BH-97	Total/NA	Solid	Total BTEX	
880-25471-52	BH-98	Total/NA	Solid	Total BTEX	
880-25471-53	BH-101	Total/NA	Solid	Total BTEX	
880-25471-54	BH-102	Total/NA	Solid	Total BTEX	
880-25471-55	BH-39	Total/NA	Solid	Total BTEX	
880-25471-56	BH-72	Total/NA	Solid	Total BTEX	

Analysis Batch: 48287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-16	BH-35	Total/NA	Solid	8021B	48185
880-25471-17	BH-36	Total/NA	Solid	8021B	48185
880-25471-18	BH-37	Total/NA	Solid	8021B	48185
880-25471-19	BH-38	Total/NA	Solid	8021B	48185
880-25471-20	BH-40	Total/NA	Solid	8021B	48185
880-25471-21	BH-42	Total/NA	Solid	8021B	48185
880-25471-22	BH-43	Total/NA	Solid	8021B	48185
880-25471-23	BH-45	Total/NA	Solid	8021B	48185
880-25471-24	BH-47	Total/NA	Solid	8021B	48185
880-25471-25	BH-49	Total/NA	Solid	8021B	48185
880-25471-26	BH-52	Total/NA	Solid	8021B	48185
880-25471-27	BH-53	Total/NA	Solid	8021B	48185
880-25471-28	BH-56	Total/NA	Solid	8021B	48185
880-25471-29	BH-62	Total/NA	Solid	8021B	48185
880-25471-30	BH-66	Total/NA	Solid	8021B	48185
880-25471-31	BH-68	Total/NA	Solid	8021B	48185
880-25471-32	BH-69	Total/NA	Solid	8021B	48185
880-25471-33	BH-70	Total/NA	Solid	8021B	48185
880-25471-34	BH-71	Total/NA	Solid	8021B	48185
880-25471-35	BH-73	Total/NA	Solid	8021B	48185
880-25471-36	BH-74	Total/NA	Solid	8021B	48190
880-25471-37	BH-75	Total/NA	Solid	8021B	48190
880-25471-38	BH-76	Total/NA	Solid	8021B	48190
880-25471-39	BH-80	Total/NA	Solid	8021B	48190
880-25471-40	BH-83	Total/NA	Solid	8021B	48190
880-25471-41	BH-84	Total/NA	Solid	8021B	48190
880-25471-42	BH-85	Total/NA	Solid	8021B	48190
880-25471-43	BH-86	Total/NA	Solid	8021B	48190
880-25471-44	BH-87	Total/NA	Solid	8021B	48190

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

GC VOA (Continued)

Analysis Batch: 48287 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-45	BH-88	Total/NA	Solid	8021B	48190
880-25471-46	BH-89	Total/NA	Solid	8021B	48190
880-25471-47	BH-90	Total/NA	Solid	8021B	48190
880-25471-48	BH-91	Total/NA	Solid	8021B	48190
880-25471-49	BH-95	Total/NA	Solid	8021B	48190
880-25471-50	BH-96	Total/NA	Solid	8021B	48190
880-25471-51	BH-97	Total/NA	Solid	8021B	48190
880-25471-52	BH-98	Total/NA	Solid	8021B	48190
880-25471-53	BH-101	Total/NA	Solid	8021B	48190
880-25471-54	BH-102	Total/NA	Solid	8021B	48190
880-25471-55	BH-39	Total/NA	Solid	8021B	48190
MB 880-48185/5-A	Method Blank	Total/NA	Solid	8021B	48185
MB 880-48190/5-A	Method Blank	Total/NA	Solid	8021B	48190
LCS 880-48185/1-A	Lab Control Sample	Total/NA	Solid	8021B	48185
LCS 880-48190/1-A	Lab Control Sample	Total/NA	Solid	8021B	48190
LCSD 880-48185/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48185
LCSD 880-48190/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48190
880-25471-16 MS	BH-35	Total/NA	Solid	8021B	48185
880-25471-16 MSD	BH-35	Total/NA	Solid	8021B	48185
880-25471-36 MS	BH-74	Total/NA	Solid	8021B	48190
880-25471-36 MSD	BH-74	Total/NA	Solid	8021B	48190

GC Semi VOA

Analysis Batch: 47856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-1	BH-3	Total/NA	Solid	8015B NM	47921
880-25471-2	BH-4	Total/NA	Solid	8015B NM	47921
880-25471-3	BH-10	Total/NA	Solid	8015B NM	47921
880-25471-4	BH-14	Total/NA	Solid	8015B NM	47921
880-25471-5	BH-16	Total/NA	Solid	8015B NM	47921
880-25471-6	BH-17	Total/NA	Solid	8015B NM	47921
880-25471-7	BH-18	Total/NA	Solid	8015B NM	47921
880-25471-8	BH-20	Total/NA	Solid	8015B NM	47921
880-25471-9	BH-22	Total/NA	Solid	8015B NM	47921
880-25471-10	BH-23	Total/NA	Solid	8015B NM	47921
880-25471-11	BH-24	Total/NA	Solid	8015B NM	47921
880-25471-12	BH-25	Total/NA	Solid	8015B NM	47921
880-25471-13	BH-29	Total/NA	Solid	8015B NM	47921
880-25471-14	BH-30	Total/NA	Solid	8015B NM	47921
880-25471-15	BH-32	Total/NA	Solid	8015B NM	47921
880-25471-16	BH-35	Total/NA	Solid	8015B NM	47921
880-25471-17	BH-36	Total/NA	Solid	8015B NM	47921
880-25471-18	BH-37	Total/NA	Solid	8015B NM	47921
880-25471-19	BH-38	Total/NA	Solid	8015B NM	47921
880-25471-20	BH-40	Total/NA	Solid	8015B NM	47921
MB 880-47921/1-A	Method Blank	Total/NA	Solid	8015B NM	47921
LCS 880-47921/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47921
LCSD 880-47921/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47921
880-25471-1 MS	BH-3	Total/NA	Solid	8015B NM	47921
880-25471-1 MSD	BH-3	Total/NA	Solid	8015B NM	47921

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

GC Semi VOA

Analysis Batch: 47858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-21	BH-42	Total/NA	Solid	8015B NM	47923
880-25471-22	BH-43	Total/NA	Solid	8015B NM	47923
880-25471-23	BH-45	Total/NA	Solid	8015B NM	47923
880-25471-24	BH-47	Total/NA	Solid	8015B NM	47923
880-25471-25	BH-49	Total/NA	Solid	8015B NM	47923
880-25471-26	BH-52	Total/NA	Solid	8015B NM	47923
880-25471-27	BH-53	Total/NA	Solid	8015B NM	47923
880-25471-28	BH-56	Total/NA	Solid	8015B NM	47923
880-25471-29	BH-62	Total/NA	Solid	8015B NM	47923
880-25471-30	BH-66	Total/NA	Solid	8015B NM	47923
880-25471-31	BH-68	Total/NA	Solid	8015B NM	47923
880-25471-32	BH-69	Total/NA	Solid	8015B NM	47923
880-25471-33	BH-70	Total/NA	Solid	8015B NM	47923
880-25471-34	BH-71	Total/NA	Solid	8015B NM	47923
880-25471-35	BH-73	Total/NA	Solid	8015B NM	47923
880-25471-36	BH-74	Total/NA	Solid	8015B NM	47923
880-25471-37	BH-75	Total/NA	Solid	8015B NM	47923
880-25471-38	BH-76	Total/NA	Solid	8015B NM	47923
880-25471-39	BH-80	Total/NA	Solid	8015B NM	47923
880-25471-40	BH-83	Total/NA	Solid	8015B NM	47923
MB 880-47923/1-A	Method Blank	Total/NA	Solid	8015B NM	47923
LCS 880-47923/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47923
LCSD 880-47923/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47923
880-25471-21 MS	BH-42	Total/NA	Solid	8015B NM	47923
880-25471-21 MSD	BH-42	Total/NA	Solid	8015B NM	47923

Analysis Batch: 47860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-41	BH-84	Total/NA	Solid	8015B NM	47924
880-25471-42	BH-85	Total/NA	Solid	8015B NM	47924
880-25471-43	BH-86	Total/NA	Solid	8015B NM	47924
880-25471-44	BH-87	Total/NA	Solid	8015B NM	47924
880-25471-45	BH-88	Total/NA	Solid	8015B NM	47924
880-25471-46	BH-89	Total/NA	Solid	8015B NM	47924
880-25471-47	BH-90	Total/NA	Solid	8015B NM	47924
880-25471-48	BH-91	Total/NA	Solid	8015B NM	47924
880-25471-49	BH-95	Total/NA	Solid	8015B NM	47924
880-25471-50	BH-96	Total/NA	Solid	8015B NM	47924
880-25471-51	BH-97	Total/NA	Solid	8015B NM	47924
880-25471-52	BH-98	Total/NA	Solid	8015B NM	47924
880-25471-53	BH-101	Total/NA	Solid	8015B NM	47924
880-25471-54	BH-102	Total/NA	Solid	8015B NM	47924
880-25471-55	BH-39	Total/NA	Solid	8015B NM	47924
880-25471-56	BH-72	Total/NA	Solid	8015B NM	47924
MB 880-47924/1-A	Method Blank	Total/NA	Solid	8015B NM	47924
LCS 880-47924/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47924
LCSD 880-47924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47924

Prep Batch: 47921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-1	BH-3	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

GC Semi VOA (Continued)

Prep Batch: 47921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-2	BH-4	Total/NA	Solid	8015NM Prep	
880-25471-3	BH-10	Total/NA	Solid	8015NM Prep	
880-25471-4	BH-14	Total/NA	Solid	8015NM Prep	
880-25471-5	BH-16	Total/NA	Solid	8015NM Prep	
880-25471-6	BH-17	Total/NA	Solid	8015NM Prep	
880-25471-7	BH-18	Total/NA	Solid	8015NM Prep	
880-25471-8	BH-20	Total/NA	Solid	8015NM Prep	
880-25471-9	BH-22	Total/NA	Solid	8015NM Prep	
880-25471-10	BH-23	Total/NA	Solid	8015NM Prep	
880-25471-11	BH-24	Total/NA	Solid	8015NM Prep	
880-25471-12	BH-25	Total/NA	Solid	8015NM Prep	
880-25471-13	BH-29	Total/NA	Solid	8015NM Prep	
880-25471-14	BH-30	Total/NA	Solid	8015NM Prep	
880-25471-15	BH-32	Total/NA	Solid	8015NM Prep	
880-25471-16	BH-35	Total/NA	Solid	8015NM Prep	
880-25471-17	BH-36	Total/NA	Solid	8015NM Prep	
880-25471-18	BH-37	Total/NA	Solid	8015NM Prep	
880-25471-19	BH-38	Total/NA	Solid	8015NM Prep	
880-25471-20	BH-40	Total/NA	Solid	8015NM Prep	
MB 880-47921/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47921/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47921/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25471-1 MS	BH-3	Total/NA	Solid	8015NM Prep	
880-25471-1 MSD	BH-3	Total/NA	Solid	8015NM Prep	

Prep Batch: 47923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-21	BH-42	Total/NA	Solid	8015NM Prep	
880-25471-22	BH-43	Total/NA	Solid	8015NM Prep	
880-25471-23	BH-45	Total/NA	Solid	8015NM Prep	
880-25471-24	BH-47	Total/NA	Solid	8015NM Prep	
880-25471-25	BH-49	Total/NA	Solid	8015NM Prep	
880-25471-26	BH-52	Total/NA	Solid	8015NM Prep	
880-25471-27	BH-53	Total/NA	Solid	8015NM Prep	
880-25471-28	BH-56	Total/NA	Solid	8015NM Prep	
880-25471-29	BH-62	Total/NA	Solid	8015NM Prep	
880-25471-30	BH-66	Total/NA	Solid	8015NM Prep	
880-25471-31	BH-68	Total/NA	Solid	8015NM Prep	
880-25471-32	BH-69	Total/NA	Solid	8015NM Prep	
880-25471-33	BH-70	Total/NA	Solid	8015NM Prep	
880-25471-34	BH-71	Total/NA	Solid	8015NM Prep	
880-25471-35	BH-73	Total/NA	Solid	8015NM Prep	
880-25471-36	BH-74	Total/NA	Solid	8015NM Prep	
880-25471-37	BH-75	Total/NA	Solid	8015NM Prep	
880-25471-38	BH-76	Total/NA	Solid	8015NM Prep	
880-25471-39	BH-80	Total/NA	Solid	8015NM Prep	
880-25471-40	BH-83	Total/NA	Solid	8015NM Prep	
MB 880-47923/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47923/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47923/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25471-21 MS	BH-42	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

GC Semi VOA (Continued)

Prep Batch: 47923 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-21 MSD	BH-42	Total/NA	Solid	8015NM Prep	

Prep Batch: 47924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-41	BH-84	Total/NA	Solid	8015NM Prep	
880-25471-42	BH-85	Total/NA	Solid	8015NM Prep	
880-25471-43	BH-86	Total/NA	Solid	8015NM Prep	
880-25471-44	BH-87	Total/NA	Solid	8015NM Prep	
880-25471-45	BH-88	Total/NA	Solid	8015NM Prep	
880-25471-46	BH-89	Total/NA	Solid	8015NM Prep	
880-25471-47	BH-90	Total/NA	Solid	8015NM Prep	
880-25471-48	BH-91	Total/NA	Solid	8015NM Prep	
880-25471-49	BH-95	Total/NA	Solid	8015NM Prep	
880-25471-50	BH-96	Total/NA	Solid	8015NM Prep	
880-25471-51	BH-97	Total/NA	Solid	8015NM Prep	
880-25471-52	BH-98	Total/NA	Solid	8015NM Prep	
880-25471-53	BH-101	Total/NA	Solid	8015NM Prep	
880-25471-54	BH-102	Total/NA	Solid	8015NM Prep	
880-25471-55	BH-39	Total/NA	Solid	8015NM Prep	
880-25471-56	BH-72	Total/NA	Solid	8015NM Prep	
MB 880-47924/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47924/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-1	BH-3	Total/NA	Solid	8015 NM	
880-25471-2	BH-4	Total/NA	Solid	8015 NM	
880-25471-3	BH-10	Total/NA	Solid	8015 NM	
880-25471-4	BH-14	Total/NA	Solid	8015 NM	
880-25471-5	BH-16	Total/NA	Solid	8015 NM	
880-25471-6	BH-17	Total/NA	Solid	8015 NM	
880-25471-7	BH-18	Total/NA	Solid	8015 NM	
880-25471-8	BH-20	Total/NA	Solid	8015 NM	
880-25471-9	BH-22	Total/NA	Solid	8015 NM	
880-25471-10	BH-23	Total/NA	Solid	8015 NM	
880-25471-11	BH-24	Total/NA	Solid	8015 NM	
880-25471-12	BH-25	Total/NA	Solid	8015 NM	
880-25471-13	BH-29	Total/NA	Solid	8015 NM	
880-25471-14	BH-30	Total/NA	Solid	8015 NM	
880-25471-15	BH-32	Total/NA	Solid	8015 NM	
880-25471-16	BH-35	Total/NA	Solid	8015 NM	
880-25471-17	BH-36	Total/NA	Solid	8015 NM	
880-25471-18	BH-37	Total/NA	Solid	8015 NM	
880-25471-19	BH-38	Total/NA	Solid	8015 NM	
880-25471-20	BH-40	Total/NA	Solid	8015 NM	
880-25471-21	BH-42	Total/NA	Solid	8015 NM	
880-25471-22	BH-43	Total/NA	Solid	8015 NM	
880-25471-23	BH-45	Total/NA	Solid	8015 NM	
880-25471-24	BH-47	Total/NA	Solid	8015 NM	
880-25471-25	BH-49	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

GC Semi VOA (Continued)

Analysis Batch: 48052 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-26	BH-52	Total/NA	Solid	8015 NM	
880-25471-27	BH-53	Total/NA	Solid	8015 NM	
880-25471-28	BH-56	Total/NA	Solid	8015 NM	
880-25471-29	BH-62	Total/NA	Solid	8015 NM	
880-25471-30	BH-66	Total/NA	Solid	8015 NM	
880-25471-31	BH-68	Total/NA	Solid	8015 NM	
880-25471-32	BH-69	Total/NA	Solid	8015 NM	
880-25471-33	BH-70	Total/NA	Solid	8015 NM	
880-25471-34	BH-71	Total/NA	Solid	8015 NM	
880-25471-35	BH-73	Total/NA	Solid	8015 NM	
880-25471-36	BH-74	Total/NA	Solid	8015 NM	
880-25471-37	BH-75	Total/NA	Solid	8015 NM	
880-25471-38	BH-76	Total/NA	Solid	8015 NM	
880-25471-39	BH-80	Total/NA	Solid	8015 NM	
880-25471-40	BH-83	Total/NA	Solid	8015 NM	
880-25471-41	BH-84	Total/NA	Solid	8015 NM	
880-25471-42	BH-85	Total/NA	Solid	8015 NM	
880-25471-43	BH-86	Total/NA	Solid	8015 NM	
880-25471-44	BH-87	Total/NA	Solid	8015 NM	
880-25471-45	BH-88	Total/NA	Solid	8015 NM	
880-25471-46	BH-89	Total/NA	Solid	8015 NM	
880-25471-47	BH-90	Total/NA	Solid	8015 NM	
880-25471-48	BH-91	Total/NA	Solid	8015 NM	
880-25471-49	BH-95	Total/NA	Solid	8015 NM	
880-25471-50	BH-96	Total/NA	Solid	8015 NM	
880-25471-51	BH-97	Total/NA	Solid	8015 NM	
880-25471-52	BH-98	Total/NA	Solid	8015 NM	
880-25471-53	BH-101	Total/NA	Solid	8015 NM	
880-25471-54	BH-102	Total/NA	Solid	8015 NM	
880-25471-55	BH-39	Total/NA	Solid	8015 NM	
880-25471-56	BH-72	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 47973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-1	BH-3	Soluble	Solid	DI Leach	
880-25471-2	BH-4	Soluble	Solid	DI Leach	
880-25471-3	BH-10	Soluble	Solid	DI Leach	
880-25471-4	BH-14	Soluble	Solid	DI Leach	
880-25471-5	BH-16	Soluble	Solid	DI Leach	
880-25471-6	BH-17	Soluble	Solid	DI Leach	
880-25471-7	BH-18	Soluble	Solid	DI Leach	
880-25471-8	BH-20	Soluble	Solid	DI Leach	
880-25471-9	BH-22	Soluble	Solid	DI Leach	
880-25471-10	BH-23	Soluble	Solid	DI Leach	
880-25471-11	BH-24	Soluble	Solid	DI Leach	
880-25471-12	BH-25	Soluble	Solid	DI Leach	
880-25471-13	BH-29	Soluble	Solid	DI Leach	
880-25471-14	BH-30	Soluble	Solid	DI Leach	
880-25471-15	BH-32	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

HPLC/IC (Continued)

Leach Batch: 47973 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-16	BH-35	Soluble	Solid	DI Leach	
880-25471-17	BH-36	Soluble	Solid	DI Leach	
880-25471-18	BH-37	Soluble	Solid	DI Leach	
880-25471-19	BH-38	Soluble	Solid	DI Leach	
880-25471-20	BH-40	Soluble	Solid	DI Leach	
MB 880-47973/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47973/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47973/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25471-1 MS	BH-3	Soluble	Solid	DI Leach	
880-25471-1 MSD	BH-3	Soluble	Solid	DI Leach	
880-25471-11 MS	BH-24	Soluble	Solid	DI Leach	
880-25471-11 MSD	BH-24	Soluble	Solid	DI Leach	

Leach Batch: 47974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-21	BH-42	Soluble	Solid	DI Leach	
880-25471-22	BH-43	Soluble	Solid	DI Leach	
880-25471-23	BH-45	Soluble	Solid	DI Leach	
880-25471-24	BH-47	Soluble	Solid	DI Leach	
880-25471-25	BH-49	Soluble	Solid	DI Leach	
880-25471-26	BH-52	Soluble	Solid	DI Leach	
880-25471-27	BH-53	Soluble	Solid	DI Leach	
880-25471-28	BH-56	Soluble	Solid	DI Leach	
880-25471-29	BH-62	Soluble	Solid	DI Leach	
880-25471-30	BH-66	Soluble	Solid	DI Leach	
880-25471-31	BH-68	Soluble	Solid	DI Leach	
880-25471-32	BH-69	Soluble	Solid	DI Leach	
880-25471-33	BH-70	Soluble	Solid	DI Leach	
880-25471-34	BH-71	Soluble	Solid	DI Leach	
880-25471-35	BH-73	Soluble	Solid	DI Leach	
880-25471-36	BH-74	Soluble	Solid	DI Leach	
880-25471-37	BH-75	Soluble	Solid	DI Leach	
880-25471-38	BH-76	Soluble	Solid	DI Leach	
880-25471-39	BH-80	Soluble	Solid	DI Leach	
880-25471-40	BH-83	Soluble	Solid	DI Leach	
MB 880-47974/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47974/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47974/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25471-21 MS	BH-42	Soluble	Solid	DI Leach	
880-25471-21 MSD	BH-42	Soluble	Solid	DI Leach	
880-25471-31 MS	BH-68	Soluble	Solid	DI Leach	
880-25471-31 MSD	BH-68	Soluble	Solid	DI Leach	

Leach Batch: 47975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-41	BH-84	Soluble	Solid	DI Leach	
880-25471-42	BH-85	Soluble	Solid	DI Leach	
880-25471-43	BH-86	Soluble	Solid	DI Leach	
880-25471-44	BH-87	Soluble	Solid	DI Leach	
880-25471-45	BH-88	Soluble	Solid	DI Leach	
880-25471-46	BH-89	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

HPLC/IC (Continued)

Leach Batch: 47975 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-47	BH-90	Soluble	Solid	DI Leach	
880-25471-48	BH-91	Soluble	Solid	DI Leach	
880-25471-49	BH-95	Soluble	Solid	DI Leach	
880-25471-50	BH-96	Soluble	Solid	DI Leach	
880-25471-51	BH-97	Soluble	Solid	DI Leach	
880-25471-52	BH-98	Soluble	Solid	DI Leach	
880-25471-53	BH-101	Soluble	Solid	DI Leach	
880-25471-54	BH-102	Soluble	Solid	DI Leach	
880-25471-55	BH-39	Soluble	Solid	DI Leach	
880-25471-56	BH-72	Soluble	Solid	DI Leach	
MB 880-47975/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47975/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47975/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25471-41 MS	BH-84	Soluble	Solid	DI Leach	
880-25471-41 MSD	BH-84	Soluble	Solid	DI Leach	
880-25471-51 MS	BH-97	Soluble	Solid	DI Leach	
880-25471-51 MSD	BH-97	Soluble	Solid	DI Leach	

Analysis Batch: 48053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-1	BH-3	Soluble	Solid	300.0	47973
880-25471-2	BH-4	Soluble	Solid	300.0	47973
880-25471-3	BH-10	Soluble	Solid	300.0	47973
880-25471-4	BH-14	Soluble	Solid	300.0	47973
880-25471-5	BH-16	Soluble	Solid	300.0	47973
880-25471-6	BH-17	Soluble	Solid	300.0	47973
880-25471-7	BH-18	Soluble	Solid	300.0	47973
880-25471-8	BH-20	Soluble	Solid	300.0	47973
880-25471-9	BH-22	Soluble	Solid	300.0	47973
880-25471-10	BH-23	Soluble	Solid	300.0	47973
880-25471-11	BH-24	Soluble	Solid	300.0	47973
880-25471-12	BH-25	Soluble	Solid	300.0	47973
880-25471-13	BH-29	Soluble	Solid	300.0	47973
880-25471-14	BH-30	Soluble	Solid	300.0	47973
880-25471-15	BH-32	Soluble	Solid	300.0	47973
880-25471-16	BH-35	Soluble	Solid	300.0	47973
880-25471-17	BH-36	Soluble	Solid	300.0	47973
880-25471-18	BH-37	Soluble	Solid	300.0	47973
880-25471-19	BH-38	Soluble	Solid	300.0	47973
880-25471-20	BH-40	Soluble	Solid	300.0	47973
MB 880-47973/1-A	Method Blank	Soluble	Solid	300.0	47973
LCS 880-47973/2-A	Lab Control Sample	Soluble	Solid	300.0	47973
LCSD 880-47973/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47973
880-25471-1 MS	BH-3	Soluble	Solid	300.0	47973
880-25471-1 MSD	BH-3	Soluble	Solid	300.0	47973
880-25471-11 MS	BH-24	Soluble	Solid	300.0	47973
880-25471-11 MSD	BH-24	Soluble	Solid	300.0	47973

Analysis Batch: 48092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-21	BH-42	Soluble	Solid	300.0	47974

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

HPLC/IC (Continued)

Analysis Batch: 48092 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-22	BH-43	Soluble	Solid	300.0	47974
880-25471-23	BH-45	Soluble	Solid	300.0	47974
880-25471-24	BH-47	Soluble	Solid	300.0	47974
880-25471-25	BH-49	Soluble	Solid	300.0	47974
880-25471-26	BH-52	Soluble	Solid	300.0	47974
880-25471-27	BH-53	Soluble	Solid	300.0	47974
880-25471-28	BH-56	Soluble	Solid	300.0	47974
880-25471-29	BH-62	Soluble	Solid	300.0	47974
880-25471-30	BH-66	Soluble	Solid	300.0	47974
880-25471-31	BH-68	Soluble	Solid	300.0	47974
880-25471-32	BH-69	Soluble	Solid	300.0	47974
880-25471-33	BH-70	Soluble	Solid	300.0	47974
880-25471-34	BH-71	Soluble	Solid	300.0	47974
880-25471-35	BH-73	Soluble	Solid	300.0	47974
880-25471-36	BH-74	Soluble	Solid	300.0	47974
880-25471-37	BH-75	Soluble	Solid	300.0	47974
880-25471-38	BH-76	Soluble	Solid	300.0	47974
880-25471-39	BH-80	Soluble	Solid	300.0	47974
880-25471-40	BH-83	Soluble	Solid	300.0	47974
MB 880-47974/1-A	Method Blank	Soluble	Solid	300.0	47974
LCS 880-47974/2-A	Lab Control Sample	Soluble	Solid	300.0	47974
LCSD 880-47974/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47974
880-25471-21 MS	BH-42	Soluble	Solid	300.0	47974
880-25471-21 MSD	BH-42	Soluble	Solid	300.0	47974
880-25471-31 MS	BH-68	Soluble	Solid	300.0	47974
880-25471-31 MSD	BH-68	Soluble	Solid	300.0	47974

Analysis Batch: 48101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-41	BH-84	Soluble	Solid	300.0	47975
880-25471-42	BH-85	Soluble	Solid	300.0	47975
880-25471-43	BH-86	Soluble	Solid	300.0	47975
880-25471-44	BH-87	Soluble	Solid	300.0	47975
880-25471-45	BH-88	Soluble	Solid	300.0	47975
880-25471-46	BH-89	Soluble	Solid	300.0	47975
880-25471-47	BH-90	Soluble	Solid	300.0	47975
880-25471-48	BH-91	Soluble	Solid	300.0	47975
880-25471-49	BH-95	Soluble	Solid	300.0	47975
880-25471-50	BH-96	Soluble	Solid	300.0	47975
880-25471-51	BH-97	Soluble	Solid	300.0	47975
880-25471-52	BH-98	Soluble	Solid	300.0	47975
880-25471-53	BH-101	Soluble	Solid	300.0	47975
880-25471-54	BH-102	Soluble	Solid	300.0	47975
880-25471-55	BH-39	Soluble	Solid	300.0	47975
880-25471-56	BH-72	Soluble	Solid	300.0	47975
MB 880-47975/1-A	Method Blank	Soluble	Solid	300.0	47975
LCS 880-47975/2-A	Lab Control Sample	Soluble	Solid	300.0	47975
LCSD 880-47975/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47975
880-25471-41 MS	BH-84	Soluble	Solid	300.0	47975
880-25471-41 MSD	BH-84	Soluble	Solid	300.0	47975
880-25471-51 MS	BH-97	Soluble	Solid	300.0	47975

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

HPLC/IC (Continued)

Analysis Batch: 48101 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25471-51 MSD	BH-97	Soluble	Solid	300.0	47975

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

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-3

Lab Sample ID: 880-25471-1

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 00:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 21:02	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 18:00	CH	EET MID

Client Sample ID: BH-4

Lab Sample ID: 880-25471-2

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 01:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 22:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48053	03/07/23 18:18	CH	EET MID

Client Sample ID: BH-10

Lab Sample ID: 880-25471-3

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 01:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 22:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48053	03/07/23 18:25	CH	EET MID

Client Sample ID: BH-14

Lab Sample ID: 880-25471-4

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 01:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-14**Lab Sample ID: 880-25471-4****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 22:53	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 18:31	CH	EET MID

Client Sample ID: BH-16**Lab Sample ID: 880-25471-5****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 02:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 23:16	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 18:37	CH	EET MID

Client Sample ID: BH-17**Lab Sample ID: 880-25471-6****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 03:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 23:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 18:55	CH	EET MID

Client Sample ID: BH-18**Lab Sample ID: 880-25471-7****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 04:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 00:01	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-18

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Lab Sample ID: 880-25471-7

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			4.99 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 19:01	CH	EET MID

Client Sample ID: BH-20

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Lab Sample ID: 880-25471-8

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 04:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 00:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 19:08	CH	EET MID

Client Sample ID: BH-22

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Lab Sample ID: 880-25471-9

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			5.02 g	5 mL	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 04:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 00:44	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 19:14	CH	EET MID

Client Sample ID: BH-23

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Lab Sample ID: 880-25471-10

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 05:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 01:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 19:20	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-24

Lab Sample ID: 880-25471-11

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 05:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 01:49	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 19:26	CH	EET MID

Client Sample ID: BH-25

Lab Sample ID: 880-25471-12

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 05:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 02:10	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 19:45	CH	EET MID

Client Sample ID: BH-29

Lab Sample ID: 880-25471-13

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 06:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 02:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 19:51	CH	EET MID

Client Sample ID: BH-30

Lab Sample ID: 880-25471-14

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 06:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-30**Lab Sample ID: 880-25471-14****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 02:53	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 20:09	CH	EET MID

Client Sample ID: BH-32**Lab Sample ID: 880-25471-15****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48184	03/09/23 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48179	03/10/23 06:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.031 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 03:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 20:16	CH	EET MID

Client Sample ID: BH-35**Lab Sample ID: 880-25471-16****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 13:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 03:36	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 20:22	CH	EET MID

Client Sample ID: BH-36**Lab Sample ID: 880-25471-17****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 14:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 03:57	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-36**Lab Sample ID: 880-25471-17****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 20:28	CH	EET MID

Client Sample ID: BH-37**Lab Sample ID: 880-25471-18****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 04:18	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 20:34	CH	EET MID

Client Sample ID: BH-38**Lab Sample ID: 880-25471-19****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 15:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 04:41	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 20:40	CH	EET MID

Client Sample ID: BH-40**Lab Sample ID: 880-25471-20****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 15:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47921	03/06/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/07/23 05:02	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47973	03/06/23 17:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48053	03/07/23 20:46	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-42**Lab Sample ID: 880-25471-21****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 15:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/06/23 21:02	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 21:36	CH	EET MID

Client Sample ID: BH-43**Lab Sample ID: 880-25471-22****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 16:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/06/23 22:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 21:54	CH	EET MID

Client Sample ID: BH-45**Lab Sample ID: 880-25471-23****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 16:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/06/23 22:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 22:00	CH	EET MID

Client Sample ID: BH-47**Lab Sample ID: 880-25471-24****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 17:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-47

Lab Sample ID: 880-25471-24

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/06/23 22:53	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 22:06	CH	EET MID

Client Sample ID: BH-49

Lab Sample ID: 880-25471-25

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/06/23 23:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 22:13	CH	EET MID

Client Sample ID: BH-52

Lab Sample ID: 880-25471-26

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 19:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/06/23 23:39	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 22:31	CH	EET MID

Client Sample ID: BH-53

Lab Sample ID: 880-25471-27

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 19:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 00:01	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-53**Lab Sample ID: 880-25471-27****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 22:38	CH	EET MID

Client Sample ID: BH-56**Lab Sample ID: 880-25471-28****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 20:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 00:23	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 22:44	CH	EET MID

Client Sample ID: BH-62**Lab Sample ID: 880-25471-29****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.9 g	5 mL	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 20:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 00:44	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 22:50	CH	EET MID

Client Sample ID: BH-66**Lab Sample ID: 880-25471-30****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 21:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 01:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 22:56	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-68**Lab Sample ID: 880-25471-31****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 21:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 01:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 23:02	CH	EET MID

Client Sample ID: BH-69**Lab Sample ID: 880-25471-32****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 22:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 02:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 23:21	CH	EET MID

Client Sample ID: BH-70**Lab Sample ID: 880-25471-33****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 22:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 02:31	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 23:27	CH	EET MID

Client Sample ID: BH-71**Lab Sample ID: 880-25471-34****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 22:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-71

Lab Sample ID: 880-25471-34

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 02:53	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 23:45	CH	EET MID

Client Sample ID: BH-73

Lab Sample ID: 880-25471-35

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48185	03/09/23 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/10/23 23:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 03:14	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 23:52	CH	EET MID

Client Sample ID: BH-74

Lab Sample ID: 880-25471-36

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 03:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 03:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/07/23 23:58	CH	EET MID

Client Sample ID: BH-75

Lab Sample ID: 880-25471-37

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 03:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 03:57	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-75

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Lab Sample ID: 880-25471-37

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			4.96 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/08/23 00:04	CH	EET MID

Client Sample ID: BH-76

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Lab Sample ID: 880-25471-38

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 04:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 04:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/08/23 00:10	CH	EET MID

Client Sample ID: BH-80

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Lab Sample ID: 880-25471-39

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			5.03 g	5 mL	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 04:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 04:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/08/23 00:16	CH	EET MID

Client Sample ID: BH-83

Date Collected: 03/02/23 00:00

Date Received: 03/06/23 09:50

Lab Sample ID: 880-25471-40

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			5.01 g	5 mL	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 04:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47923	03/06/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47858	03/07/23 05:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47974	03/06/23 17:39	KS	EET MID
Soluble	Analysis	300.0		1			48092	03/08/23 00:22	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-84**Lab Sample ID: 880-25471-41****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 05:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/06/23 23:21	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 01:12	CH	EET MID

Client Sample ID: BH-85**Lab Sample ID: 880-25471-42****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 05:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/06/23 23:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 01:30	CH	EET MID

Client Sample ID: BH-86**Lab Sample ID: 880-25471-43****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 06:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 00:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 01:36	CH	EET MID

Client Sample ID: BH-87**Lab Sample ID: 880-25471-44****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 06:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-87

Lab Sample ID: 880-25471-44

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 00:24	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 01:42	CH	EET MID

Client Sample ID: BH-88

Lab Sample ID: 880-25471-45

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 07:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 00:44	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 01:49	CH	EET MID

Client Sample ID: BH-89

Lab Sample ID: 880-25471-46

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 08:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 01:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 02:07	CH	EET MID

Client Sample ID: BH-90

Lab Sample ID: 880-25471-47

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 09:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 01:45	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-90**Lab Sample ID: 880-25471-47****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 02:13	CH	EET MID

Client Sample ID: BH-91**Lab Sample ID: 880-25471-48****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 09:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 02:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 02:19	CH	EET MID

Client Sample ID: BH-95**Lab Sample ID: 880-25471-49****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 10:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 02:26	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 02:25	CH	EET MID

Client Sample ID: BH-96**Lab Sample ID: 880-25471-50****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 10:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 02:46	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 02:32	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-97**Lab Sample ID: 880-25471-51****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 11:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 03:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 02:38	CH	EET MID

Client Sample ID: BH-98**Lab Sample ID: 880-25471-52****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 11:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 03:28	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 02:56	CH	EET MID

Client Sample ID: BH-101**Lab Sample ID: 880-25471-53****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 12:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 03:48	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 03:02	CH	EET MID

Client Sample ID: BH-102**Lab Sample ID: 880-25471-54****Date Collected: 03/02/23 00:00****Matrix: Solid****Date Received: 03/06/23 09:50**

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 12:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Client Sample ID: BH-102

Lab Sample ID: 880-25471-54

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 04:08	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 03:21	CH	EET MID

Client Sample ID: BH-39

Lab Sample ID: 880-25471-55

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48190	03/09/23 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48287	03/11/23 13:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/13/23 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 04:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 03:27	CH	EET MID

Client Sample ID: BH-72

Lab Sample ID: 880-25471-56

Date Collected: 03/02/23 00:00

Matrix: Solid

Date Received: 03/06/23 09:50

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	48191	03/09/23 10:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48223	03/10/23 01:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48284	03/10/23 08:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48052	03/07/23 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47924	03/06/23 11:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47860	03/07/23 04:49	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47975	03/06/23 17:40	KS	EET MID
Soluble	Analysis	300.0		1			48101	03/08/23 03:33	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

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: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-25471-1	BH-3	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-2	BH-4	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-3	BH-10	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-4	BH-14	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-5	BH-16	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-6	BH-17	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-7	BH-18	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-8	BH-20	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-9	BH-22	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-10	BH-23	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-11	BH-24	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-12	BH-25	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-13	BH-29	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-14	BH-30	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-15	BH-32	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-16	BH-35	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-17	BH-36	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-18	BH-37	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-19	BH-38	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-20	BH-40	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-21	BH-42	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-22	BH-43	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-23	BH-45	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-24	BH-47	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-25	BH-49	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-26	BH-52	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-27	BH-53	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-28	BH-56	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-29	BH-62	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-30	BH-66	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-31	BH-68	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-32	BH-69	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-33	BH-70	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-34	BH-71	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-35	BH-73	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-36	BH-74	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-37	BH-75	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-38	BH-76	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-39	BH-80	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-40	BH-83	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-41	BH-84	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-42	BH-85	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-43	BH-86	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-44	BH-87	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-45	BH-88	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-46	BH-89	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-47	BH-90	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-48	BH-91	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-49	BH-95	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-50	BH-96	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-51	BH-97	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-52	BH-98	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-53	BH-101	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-54	BH-102	Solid	03/02/23 00:00	03/06/23 09:50	4 ft

Sample Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-25471-1
SDG: 12603583

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-25471-55	BH-39	Solid	03/02/23 00:00	03/06/23 09:50	4 ft
880-25471-56	BH-72	Solid	03/02/23 00:00	03/06/23 09:50	4 ft

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



Environment Testing
Xenco

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
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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

Work Order No: 25471

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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: _____

Project Name.		Doodlebug SWD Release		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes					
Project Number:		12603583'		Routine ☐ Rush																			None NO DI Water H ₂ O					
Project Location		Eunice 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		CHLORIDES (EPA 300.0) TPH (8015) BTEX (8021) Parameters																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.				Corrected Temperature																						NaOH+Ascorbic Acid SAPC		
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments				
BH-3		SO	3/2/2023		4ft	Comp	1	x	x	x																	Incident ID	
BH-4		SO	3/2/2023		4ft	Comp	1	x	x	x																		
BH-10		SO	3/2/2023		4ft	Comp	1	x	x	x																	Cost Center	
BH-14		SO	3/2/2023		4ft	Comp	1	x	x	x																		
BH-16		SO	3/2/2023		4ft	Comp	1	x	x	x																	AFE	
BH-17		SO	3/2/2023		4ft	Comp	1	x	x	x																		
BH-18		SO	3/2/2023		4ft	Comp	1	x	x	x																		
BH-20		SO	3/2/2023		4ft	Comp	1	x	x	x																		
BH-22		SO	3/2/2023		4ft	Comp	1	x	x	x																		
BH-23		SO	3/2/2023		4ft	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							

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 D Sparks		3 6-23/9.45	2		
3			4		
5			6		

Environment Testing
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Chain of Custody

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

Work Order No: 25471

www.xenco.com Page 4 of 6

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:	

Project Name		Turn Around		ANALYSIS REQUEST																Preservative Codes		
Project Number	12603583	Routine ☐ Rush ☐		Pres. Code																	None NO	DI Water H ₂ O
Project Location	Eunice 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																			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	
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA, 300.0)	TPH (8015)	BTEX (8021)											Sample Comments	
BH-68		SO	3/2/2023		4ft	Comp	1	x	x	x												Incident ID
BH-69		SO	3/2/2023		4ft	Comp	1	x	x	x												
BH-70		SO	3/2/2023		4ft	Comp	1	x	x	x												Cost Center
BH-71		SO	3/2/2023		4ft	Comp	1	x	x	x												
BH-73		SO	3/2/2023		4ft	Comp	1	x	x	x												AFE
BH-74		SO	3/2/2023		4ft	Comp	1	x	x	x												
BH-75		SO	3/2/2023		4ft	Comp	1	x	x	x												
BH-76		SO	3/2/2023		4ft	Comp	1	x	x	x												
BH-80		SO	3/2/2023		4ft	Comp	1	x	x	x												
BH-83		SO	3/2/2023		4ft	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

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 D Sparks		3-6-23/9:45	2		
3			4		
5			6		

Environment Testing
Xenco

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
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Work Order No:

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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	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADaPT ☐ Other

Project Name		Doodlebug SWD Release		Turn Around		ANALYSIS REQUEST																Preservative Codes									
Project Number		12603583		Routine ☐ Rush ☐		Pres. Code																		None NO DI Water H ₂ O							
Project Location		Eunice 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																		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									
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Grab/ Comp		# of Cont																		Sample Comments	
BH-84		SO		3/2/2023				4ft		Comp		1																		Incident ID	
BH-85		SO		3/2/2023				4ft		Comp		1																			
BH-86		SO		3/2/2023				4ft		Comp		1																		Cost Center	
BH-87		SO		3/2/2023				4ft		Comp		1																			
BH-88		SO		3/2/2023				4ft		Comp		1																		AFE	
BH-89		SO		3/2/2023				4ft		Comp		1																			
BH-90		SO		3/2/2023				4ft		Comp		1																			
BH-91		SO		3/2/2023				4ft		Comp		1																			
BH-95		SO		3/2/2023				4ft		Comp		1																			
BH-96		SO		3/2/2023				4ft		Comp		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	

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 D Sparks	[Signature]	3-8-23/9:45	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020 2



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: 25471

www.xenco.com Page 6 of 6

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]

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	D Sparks			3-6-23/245	2				
3					4				
5					6				

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-25471-1

SDG Number: 12603583

Login Number: 25471

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.
11451 Katy Freeway
Suite 400
Houston, Texas 77079

Generated 4/13/2023 1:12:44 PM

JOB DESCRIPTION

Doodlebug SWD Release
SDG NUMBER 12603583

JOB NUMBER

880-27036-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

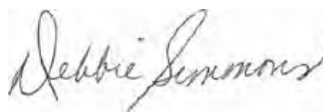
Eurofins Midland

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
4/13/2023 1:12:44 PM

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

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Laboratory Job ID: 880-27036-1
SDG: 12603583

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

Job ID: 880-27036-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-27036-1
-----------	------------------------------

Comments
No additional comments.

Receipt
The sample was received on 4/11/2023 2:08 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2° C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SW-18A (880-27036-1).

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

GC Semi VOA
Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-50958 and analytical batch 880-50962 was outside the upper control limits.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-50958/2-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-50962/20). Evidence of matrix interferences is not obvious.

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

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

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

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

Client Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

Client Sample ID: SW-18A

Lab Sample ID: 880-27036-1

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/11/23 14:08

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		04/11/23 15:18	04/11/23 19:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/23 15:18	04/11/23 19:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/11/23 15:18	04/11/23 19:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/23 15:18	04/11/23 19:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/23 15:18	04/11/23 19:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/23 15:18	04/11/23 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/11/23 15:18	04/11/23 19:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/11/23 15:18	04/11/23 19:43	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			04/12/23 09:37	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			04/13/23 11:30	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		04/12/23 09:16	04/12/23 16:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/12/23 09:16	04/12/23 16:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/12/23 09:16	04/12/23 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/12/23 09:16	04/12/23 16:55	1
o-Terphenyl	119		70 - 130	04/12/23 09:16	04/12/23 16:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.4		4.97		mg/Kg			04/12/23 10:48	1

Eurofins Midland

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

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)
880-27036-1	SW-18A	117	103
LCS 880-50846/1-A	Lab Control Sample	102	100
LCSD 880-50846/2-A	Lab Control Sample Dup	93	99
MB 880-50846/5-A	Method Blank	97	90

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)
880-27036-1	SW-18A	108	119
LCS 880-50958/2-A	Lab Control Sample	116	134 S1+
LCSD 880-50958/3-A	Lab Control Sample Dup	103	121
MB 880-50958/1-A	Method Blank	116	148 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50846/5-A

Matrix: Solid

Analysis Batch: 50870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50846

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 16:18	04/11/23 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 16:18	04/11/23 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 16:18	04/11/23 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/10/23 16:18	04/11/23 11:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 16:18	04/11/23 11:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 16:18	04/11/23 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/10/23 16:18	04/11/23 11:26	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/10/23 16:18	04/11/23 11:26	1

Lab Sample ID: LCS 880-50846/1-A

Matrix: Solid

Analysis Batch: 50870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1109		mg/Kg		111	70 - 130
Toluene	0.100	0.1119		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1151		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2327		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1020		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-50846/2-A

Matrix: Solid

Analysis Batch: 50870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50846

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1092		mg/Kg		109	70 - 130	2	35
Toluene	0.100	0.1073		mg/Kg		107	70 - 130	4	35
Ethylbenzene	0.100	0.1060		mg/Kg		106	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2107		mg/Kg		105	70 - 130	10	35
o-Xylene	0.100	0.09201		mg/Kg		92	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

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

Lab Sample ID: MB 880-50958/1-A

Matrix: Solid

Analysis Batch: 50962

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50958

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		04/12/23 08:16	04/12/23 09:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/12/23 08:16	04/12/23 09:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/12/23 08:16	04/12/23 09:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	04/12/23 08:16	04/12/23 09:02	1
o-Terphenyl	148	S1+	70 - 130	04/12/23 08:16	04/12/23 09:02	1

Lab Sample ID: LCS 880-50958/2-A

Matrix: Solid

Analysis Batch: 50962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1120		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1006		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	134	S1+	70 - 130

Lab Sample ID: LCSD 880-50958/3-A

Matrix: Solid

Analysis Batch: 50962

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50958

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1065		mg/Kg		106	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	934.1		mg/Kg		93	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	121		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50961/1-A

Matrix: Solid

Analysis Batch: 50980

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			04/12/23 10:33	1

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-50961/2-A				Client Sample ID: Lab Control Sample							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 50980											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	236.1		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-50961/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 50980											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	237.6		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-27036-1 MS				Client Sample ID: SW-18A							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 50980											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	48.4		249	300.1		mg/Kg		101	90 - 110		

Lab Sample ID: 880-27036-1 MSD				Client Sample ID: SW-18A							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 50980											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	48.4		249	301.1		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

GC VOA

Prep Batch: 50846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27036-1	SW-18A	Total/NA	Solid	5035	
MB 880-50846/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50846/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50846/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 50870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27036-1	SW-18A	Total/NA	Solid	8021B	50846
MB 880-50846/5-A	Method Blank	Total/NA	Solid	8021B	50846
LCS 880-50846/1-A	Lab Control Sample	Total/NA	Solid	8021B	50846
LCSD 880-50846/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50846

Analysis Batch: 50965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27036-1	SW-18A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 50958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27036-1	SW-18A	Total/NA	Solid	8015NM Prep	
MB 880-50958/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50958/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50958/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27036-1	SW-18A	Total/NA	Solid	8015B NM	50958
MB 880-50958/1-A	Method Blank	Total/NA	Solid	8015B NM	50958
LCS 880-50958/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50958
LCSD 880-50958/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50958

Analysis Batch: 51057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27036-1	SW-18A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27036-1	SW-18A	Soluble	Solid	DI Leach	
MB 880-50961/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50961/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50961/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27036-1 MS	SW-18A	Soluble	Solid	DI Leach	
880-27036-1 MSD	SW-18A	Soluble	Solid	DI Leach	

Analysis Batch: 50980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27036-1	SW-18A	Soluble	Solid	300.0	50961
MB 880-50961/1-A	Method Blank	Soluble	Solid	300.0	50961
LCS 880-50961/2-A	Lab Control Sample	Soluble	Solid	300.0	50961

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

HPLC/IC (Continued)

Analysis Batch: 50980 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-50961/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50961
880-27036-1 MS	SW-18A	Soluble	Solid	300.0	50961
880-27036-1 MSD	SW-18A	Soluble	Solid	300.0	50961

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

Client Sample ID: SW-18A
Date Collected: 04/05/23 00:00
Date Received: 04/11/23 14:08

Lab Sample ID: 880-27036-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	50846	04/11/23 15:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50870	04/11/23 19:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50965	04/12/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			51057	04/13/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50958	04/12/23 09:16	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50962	04/12/23 16:55	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50961	04/12/23 09:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50980	04/12/23 10:48	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: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

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: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

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: Doodlebug SWD Release

Job ID: 880-27036-1
SDG: 12603583

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27036-1	SW-18A	Solid	04/05/23 00:00	04/11/23 14:08

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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: 27036

www.xenco.com page 1 of 1

Project Manager Stephen Asante-Ansong		Bill to (if different)		Work Order Comments	
Company Name GHD		Company Name		Program ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
Address 6121 Indian School Rd NE St 200		Address		State of Project	
City, State ZIP Albuquerque, NM 87110		City, State ZIP		Reporting Level II ☐ Level III ☐ PST/AUST ☐ TRRP ☐ Level IV ☐	
Phone (281)386-7158		Email Stephen.Asante-Ansong@ghd.com		Deliverables EDD ☐ ADaPT ☐ Other	

ANALYSIS REQUEST				Preservative Codes	
Project Name	Doodlebug SWD Release	Turn Around	Pres. Code	None NO	DI Water H ₂ O
Project Number	12603583	☐ Routine ☒ Rush		Cool Cool	MeOH Me
Project Location	Eunice, NM	Due Date		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 Samples Received Intact: Yes ☒ No ☐ Thermometer ID: 148 Cooler Custody Seals: Yes ☒ No ☐ Correction Factor: -30 Sample Custody Seals: Yes ☒ No ☐ Temperature Reading: 4.5 Total Containers: Corrected Temperature: 4.2					
Parameters CHLORIDES (EPA 300.0) TPH (8015) BTEX (8021)					
Sample Identification Matrix: SO Date Sampled: 4/5/2023 Time Sampled: Depth: Grab/Comp: 1 Sample: SW-18A					
Sample Comments Incident ID: Cost Center: AFE: 402					



880-27036 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 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 <i>D. Sparks</i>	<i>Lee</i>	4/11/23 / 1402			
3					
5					

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-27036-1

SDG Number: 12603583

Login Number: 27036

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	

Attachment C

Photographic Log

Site Photographs









Attachment D

Sampling Notifications

Nate Reece

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, January 24, 2023 5:38 PM
To: Stephen Asante-Ansong
Cc: Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Sampling Notification - nAPP2301649023

You don't often get email from ocd.enviro@emnrd.nm.gov. [Learn why this is important](#)

Stephen,

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](http://www.emnrd.nm.gov)



From: Stephen Asante-Ansong <Stephen.Asante-Ansong@ghd.com>
Sent: Tuesday, January 24, 2023 3:02 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Cassie Whitefield <Cassie.Whitefield@deleklogistics.com>; J.T. Murrey <JT.Murrey@ghd.com>
Subject: [EXTERNAL] Sampling Notification - nAPP2301649023

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 – Doodlebug SWD Release Site
nAPP2301649023
Release Date: 12-28-22
S-15-22S-33E
Lea County

Soil screening/sampling will begin at 10:00 a.m. on Tuesday, January 31, 2023.

Thanks

STEPHEN ASANTE-ANSONG, CHMM

Project Manager

GHD

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D 713.734.3090 M 703.731.4388 E stephen.asante-ansong@ghd.com

11451 Katy Freeway, Suite 400, Houston, TX 77079 USA

→ The Power of Commitment

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GHD FIRST | 24 Hour Emergency Response | US: 866 812 9565 | Canada: 800 679 9082

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Nate Reece

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, February 28, 2023 6:25 PM
To: Stephen Asante-Ansong
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] FW: Delek Doodlebug Site

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Stephen,

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](http://www.emnrd.nm.gov)



From: Stephen Asante-Ansong <Stephen.Asante-Ansong@ghd.com>
Sent: Tuesday, February 28, 2023 1:17 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] FW: Delek Doodlebug Site

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern:

Following up on my email below to make sure we are good to proceed on the referenced sampling below. Thank you.

STEPHEN ASANTE-ANSONG, CHMM
Project Manager

GHD

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D 713.734.3090 M 703.731.4388 E stephen.asante-ansong@ghd.com

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From: Stephen Asante-Ansong
Sent: Tuesday, February 28, 2023 8:55 AM
To: OCD.enviro@state.nm.us
Subject: Delek Doodlebug Site

To Whom it May Concern,

GHD on behalf of Delek Logistics, respectfully submits notification of sampling to be conducted at the below location:

Delek – Doodlebug SWD Release Site
nAPP2301649023
Release Date: 12-28-22
S-15-22S-33E
Lea County

Soil screening/sampling will begin at 10:00 a.m. on Thursday through Monday, March 2 - 6, 2023.

Thanks.

STEPHEN ASANTE-ANSONG, CHMM
Project Manager

GHD

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D 713.734.3090 M 703.731.4388 E stephen.asante-ansong@ghd.com
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Nate Reece

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, March 14, 2023 10:04 AM
To: Stephen Asante-Ansong
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Sampling Notification

Stephen,

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](http://www.emnrd.nm.gov)



From: Stephen Asante-Ansong <Stephen.Asante-Ansong@ghd.com>
Sent: Monday, March 13, 2023 3:41 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Sampling 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 – Doodlebug SWD Release Site
nAPP2301649023
Release Date: 12-28-22
S-15-22S-33E
Lea County

Delek – BC Berry Release Site
Release Date: 10-21-22
I-35-20S-34E
Lea County

Soil screening/sampling will begin at 10:00 a.m. on Thursday through Monday, March 16 - 20, 2023.

STEPHEN ASANTE-ANSONG, CHMM
Project Manager

GHD

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D 713.734.3090 M 703.731.4388 E stephen.asante-ansong@ghd.com

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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 408129

QUESTIONS

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 408129
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2301649023
Incident Name	NAPP2301649023 DOODLEBUG SWD @ 30-025-44144
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-025-44144] DOODLE BUG STATE SWD #001

Location of Release Source

Please answer all the questions in this group.

Site Name	DOODLEBUG SWD
Date Release Discovered	12/28/2022
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	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

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.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 30 BBL Recovered: 30 BBL Lost: 0 BBL.
Is the concentration of 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)	Filter pot malfunction

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

QUESTIONS, Page 2

Action 408129

QUESTIONS (continued)

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 408129
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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 Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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 Paragraph (4) of Subsection B of 19.15.29.8 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 Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Cassie Whitefield Email: cassie.whitefield@deleklogistics.com Date: 12/03/2024
--	--

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 408129

QUESTIONS (continued)

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 408129
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	529
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	86.5
GRO+DRO (EPA SW-846 Method 8015M)	67.7
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	02/08/2023
On what date will (or did) the final sampling or liner inspection occur	03/02/2023
On what date will (or was) the remediation complete(d)	04/05/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	20000
What is the estimated volume (in cubic yards) that will be remediated	3199
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 4

Action 408129

QUESTIONS (continued)

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 408129
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Cassie Whitefield Email: cassie.whitefield@deleklogistics.com Date: 12/03/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 408129

QUESTIONS (continued)

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 408129
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	The areas of SW-9, SW-10, & SW-11 are directly next to the tank battery containment and equipment and to further excavate the area would require the need to remove the entire tank battery containment as well as to remove all equipment in the immediate area.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1000
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	200
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-025-74414 DOODLE BUG STATE SWD #001C
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Cassie Whitefield Email: cassie.whitefield@deleklogistics.com Date: 12/03/2024

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Action 408129

QUESTIONS (continued)

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 408129
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 408129

CONDITIONS

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 408129
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Deferral approved. Deferral surrounding the tank battery represented by soil samples SW-9, SW-10, and SW-11 due to equipment structural stability concerns is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will be required for submittal at that time.	3/12/2025