

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

Our ref: 11220747

February 21, 2022

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

Re: **Site Characterization and Remediation Work Plan
Flamenco Federal #1 Release Site
EOG Resources Inc.
RP #s: 1RP-2281, 1 RP-2784, 1RP-2790, 1RP-4800 and 1RP-4801
L-7-22S-32E, Lea County, New Mexico**

To Whom It May Concern:

1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 1 Office. This Report provides documentation of delineation, sampling, and analyses in the affected area at the EOG Flamenco Federal #1 Release Site (Site). The Site is located in Unit Letter L Section 07 of Township 22 South and Range 32 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.40333 N latitude and 103.72034 W longitude. The release occurred on is managed by the Bureau of Land Management (BLM). Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figures 2 through 8. Groundwater conditions at the Site are fully presented under separate cover to the NMOCD in a February 9, 2022, GHD document "*Groundwater Closure Request Report, Flamenco Federal #1 Release Site*".

2. Background Information

2.1 Tin Horn Area Releases

- **1RP-2784** – The C-141 stated the release was due to a water line connection failure within the tin horn. The release occurred on July 12, 2011 and resulted in 150 barrels of produced water being released. A vacuum truck was call and approximately 100 barrels of produced water was recovered. Yates Petroleum Corporation (Yates), the operator at the time, submitted an initial C-141 to the NMOCD on July 22, 2011.
- **1RP-2790** – According to the initial C-141 the release was caused by a water line connection within the tin horn failing. The release occurred on October 21, 2011 and resulted in 275 barrels of produced

water being released. Approximately 260 barrels of produced water was recovered with the utilization of a vacuum truck. Yates submitted an initial C-141 to the NMOCD on November 2, 2011.

- **1RP-4800** – The initial C-141 stated the release was due to a failure of the water line connection at the tin horn. The release resulted in the release of 200 barrels of produced water and occurred on June 12, 2013. Nothing was recovered. An initial C-141 was prepared and submitted to the NMOCD on January 31, 2014.
- **1RP-4801** – According to the initial C-141 the release was due to a water line connection failure at the tin horn. The release occurred on August 4, 2013. The connection failure resulted in the release of 600 barrels of produced water with none being recovered. Yates prepared and submitted an initial C-141 to the NMOCD on January 31, 2014.

The initial C-141s are provided as Attachment A.

During 2017 GHD oversaw the installation of twenty-seven (27) test pits in the area of the tin horn releases. The test pits were installed to depths ranging from ten (10) to twelve (12) feet below ground surface (bgs). Soil samples were collected from depths ranging from two (2) feet to twelve (12) feet bgs and were field screened for chloride concentrations. Additionally, two (2) soil borings SB-2 and SB-3 were installed from depths ranging from thirty (30) feet to fifty (50) feet bgs. Select soil samples were submitted to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico were analyzed for chloride by EPA Method 300. Chloride concentrations ranged from non-detect to 9,000 mg/kg in TP-11 at ten (10) feet. Two samples, TP-5 at 10' and TP-8 at ten for were also analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8021B and total petroleum hydrocarbons (TPH) by Method 8015B Modified. The two (2) soil samples had BTEX and TPH concentration below the laboratory reporting limits. Many of the test pit locations were not fully delineated based on the groundwater information available at the time. Test pit and soil boring locations are depicted on Figure 2, Tin Horn Area Assessment Concentration Map Prior to 2021.

Test pit and soil boring locations along with analytical results from this earlier assessment are presented on Figure 2, Tin Horn Area Assessment Concentration Map Prior to 2021, Figure 4, Battery Area Assessment Concentration Map Prior to 2021, and On Table 1, Summary of Soil Analytical Data.

2.2 Battery Area Release

- **1RP-2281** – According to the initial C-141, lightning struck a 750 barrels fiberglass gun barrel tank which caused a release and fire to occur. Four other tanks that were on location were also destroyed. The fire department was called, and the main water line was shut in. Approximately 100 barrels of oil and 600 barrels of produced water were released with none being recovered. The release occurred on August 11, 2009. The C-141 also stated the fluids broke through the battery berm and released to the west of the battery, off pad. The tank battery at the time was located at the west end of the battery pad and was rebuilt on east end of the battery. Yates submitted an initial C-141 on August 20, 2009.

The initial C-141 for this release is provided as Attachment A.

During 2017 GHD oversaw the installation of sixty-three (63) test pits in the area of the battery area release. The test pits were installed to depths ranging from ten (10) to twenty (20) bgs. Soil samples were collected from depths ranging from two (2) feet to twenty (20) feet bgs and were field screened for chloride concentrations. Additionally, two (2) bore holes BH-40 and BH-41 were installed from depths ranging from twenty-seven to

thirty (30) feet bgs. Select soil samples were submitted to HEAL in Albuquerque, New Mexico were analyzed for chloride by EPA Method 300. Chloride concentrations ranged from non-detect to 13,000 mg/kg in TP-59 at ten (10) feet. Many of the test pit locations were not fully delineated based on the groundwater information available at the time. Test pit and bore hole locations are depicted on Figure 4, Battery Area Assessment Concentration Map Prior to 2021.

Ten (10) soil borings were completed at the Site during 2018 in order to assess the vertical and horizontal extent of the chloride contaminated soil. Depths of the soil borings ranged from 25 to 65 ft bgs. A hard caliche layer was encountered in soil boring MW-5 at 25 ft bgs and it was terminated. Soil borings that did not encounter water were grouted. In five soil borings where perched produced water was encountered, a monitor well was installed. Monitor wells MW-1, MW-2 and MW-3 were installed in January 2018 by White Drilling Company, Inc. of Clyde, Texas and monitor wells MW-8 and MW-9 were installed in August 2018 by Authentic Drilling, Inc. of Castle Rock, Colorado. All borings were advanced utilizing an air rotary drill rig. Monitor well locations can be found on Figure 6, Surrounding Area Soil Boring Concentrations Map. Select soil samples were collected and submitted to HEAL in Albuquerque, New Mexico were analyzed for chloride by EPA Method 300. Chloride concentrations ranged from non-detect to 2,200 mg/kg in MW-1 at forty (40') bgs.

3. Groundwater and Site Characterization

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

On August 3 and August 5, 2021, Cascade drilling installed two depth to water soil borings, MW-10 and MW-11, respectively. The GPS coordinates for MW-10 are 32.404213 -103.719722 and MW-11 are 32.402393 -103.723122. MW-10 was gauged on August 8, 2021, and MW-11 was gauged on August 9, 2021, with an interface probe to determine the presence or absence of groundwater, no water was detected in either of the borings. The total depth was measured as 104.60 feet in MW-10 and 104.60 feet in MW-11, both borings were subsequently plugged. Depth to groundwater for this site is greater than one hundred (100) feet bgs. A more detailed assessment of groundwater conditions has been submitted to the NMOCD under separate cover in a February 9, 2022, GHD document "*Groundwater Closure Request Report, Flamenco Federal #1 Release Site*". No receptors (water wells, significant watercourses, playas, wetlands, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the site is located within an area with depth to groundwater greater than one hundred (100) feet bgs and meets the closure criteria for depth to groundwater greater than one hundred (100) feet in Table 1 in NMAC 19.15.29.12 (Table 1). The Site characterization documentation (Boring logs for MW-10 and MW-11, Karst Potential, FEMA, Points of Diversion and Wetlands maps) are provided in Attachment B, Site Characterization Documentation. The soil boring logs and plugging reports are provided in Attachment C, GHD and Cascade Drilling Soil Boring Logs. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
Low Karst Area, No receptors found within Boundaries	>100 feet

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

Constituent	Limits
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
Benzene	10 mg/kg
BTEX	50 mg/kg

4. 2021 Delineation Assessment Summary and Findings

From July 25, 2021 to August 18, 2021, GHD Services Inc. (GHD) and Cascade Drilling (Cascade) installed thirty-eight (38) soil borings, SB-12 through SB-44, SB-21A, SB-21B, SB-21C, SB-27A, and SB-40A, within the suspected impacted Tin Horn and Tank Battery areas that were not fully delineated during the test pit assessments. Un-delineated test pits are depicted on Figure 4, Battery Area Assessment Concentration Map Prior to 2021, in blue. The soil borings were installed to depths ranging from fifteen (15) feet to eighty (80) feet bgs. Soil samples were collected every five feet and field screen for hydrocarbons utilizing a photoionization detector (PID) and chlorides utilizing Hach chloride strips. Select soil samples were submitted to Eurofins Xenco Environment testing in Carlsbad, New Mexico for analysis of BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300.

During the test pit assessments there were some test pits installed within an area believed to be the reserve pit from drilling operations. No soil borings were installed within this area as not to disturb the reserve pit. Further investigation within this area was not warranted as the reserve pit was closed under previous rules. The reserve pit location is depicted on Figure 4, Figure 5 and Figure 8.

Analytical results for the 2021 soil boring assessment indicated benzene, BTEX, TPH and chloride concentrations were below the Table 1 closure criteria for groundwater greater than one hundred (100) feet. The soil boring assessment was effective in site delineation of soil impacts. However, soil borings SB-12, SB-14, SB-15, SB-43, SB-21A, SB-35 and SB-37 exhibited chloride concentrations above NMAC 19.15.29.13, surface to four (4) feet below grade surface.

Figure 3, Tin Horn Area 2021 Soil Boring Concentration Map, and Figure 5, Battery Area 2021 Soil Boring Concentration Map, depict the locations of the soil borings and analytical concentrations. Analytical results are also provided in Table 1, Summary of Soil Analytical Data, and in the Laboratory Analytical Reports provided in Attachment E. GHD and Cascade Drilling Soil Boring Logs are provided as Attachment C. New Mexico State of Engineers Well Permits and BLM Sundry Notice are provided as Attachment D.

5. nAPP2115335335 Proposed Work Plan

5.1 Tin Horn Area Releases

Analytical results from the test pit assessments and the 2021 delineation assessment indicated benzene, BTEX, TPH and chloride concentrations were below the Table 1 closure criteria for groundwater greater

than one hundred (100) feet. However, test pits TP-3, TP-5, TP-7, TP-11 and TP-12 and soil borings SB-12, SB-14, SB-15, and SB-43 exhibited chloride concentrations above NMAC 19.15.29.13, in the surface to four (4) feet below grade interval. The impacted area represented by these test pits and soil borings will be excavated to four (4) feet below surface. The proposed excavation area (Excavation Area 1) is displayed on Figure 7, Tin Horn Area Proposed Excavation Area.

If sidewall samples along the west wall and fence line of the excavation in the Tin Horn Area exhibit benzene, BTEX, TPH and/or chloride concentrations above NMAC 19.15.29.13, in the surface to four (4) feet below grade interval, a deferral will be requested for any impacts west of the fence line due to the close proximity to Campbell Road. Campbell Road is a paved, high traffic roadway. MW-11 was installed west of Campbell Road and didn't exhibit benzene, BTEX, TPH or chloride concentration above NMAC 19.15.29.13 and therefore, delineated impacts in that direction.

5.2 Battery Area Release

Analytical results from the test pit assessments and the 2021 delineation assessment indicated benzene, BTEX, TPH and chloride concentrations were below the Table 1 closure criteria for groundwater greater than one hundred (100) feet. However, test pit TP-24 and soil borings SB-35 and SB-37 exhibited chloride concentrations above NMAC 19.15.29.13, in the surface to four (4) feet below grade interval (Excavation Area 2). The area represented by soil borings SB-35 and SB-37 will be excavated to four (4) feet below surface. A second area around SB-21A, also exhibited chloride concentrations above regulatory levels in the surface to 4' bgs interval. This smaller area (Excavation Area 3) will be excavated to four feet below grade surface. The proposed excavation areas are displayed on Figure 8, Battery Area Proposed Excavation Area.

There is one test pit, TP-24, which exhibited chloride concentrations above NMAC 19.15.29.13, in the surface to four (4) feet below grade interval, however the area will not be excavated because it is located within the suspected reserve pit. Excavation within this area is not warranted as the reserve pit was closed under previous rules and the area should not be disturbed. The reserve pit location is depicted on Figure 4, Figure 5 and Figure 8.

Composite confirmation samples will be collected from the sidewalls of the excavation from areas representing areas no larger than two hundred (200) square feet. Discrete soil samples will be collected from the sidewalls of the excavation if any staining is observed. No confirmation samples will be collected from the bottom of the excavation due to the extensive delineation activities already conducted and the site being fully delineated. Additionally, there weren't any samples at the site the exhibited benzene, BTEX, TPH or chloride concentration exceedances of 10 mg/Kg, 50 mg/Kg, 1,000 mg/Kg (GRO & DRO), 2,500 mg/Kg (GRO, DRO & MRO) or 20,000 mg/Kg, respectively. All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Sidewall samples in the first four feet will meet Table 1 closure criteria for groundwater less than fifty (50) feet.

Excavated soils will be transported to a NMOCD approved disposal facility for disposal. The anticipated volume of soil to be disposed of from the Tin Horn Area (Excavation Area 1) is approximately 1,605 cubic yards. Then anticipated volume of soil to be disposed of from the Battery Area (Excavation Area 2 and 3) is approximately 2,497 cubic yards. The excavation will be backfilled with non-impacted soil transported to the site. The remediation will be performed within 180 days after the work plan has been approved.

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

Sincerely,

GHD



Becky Haskell
Senior Project Manager



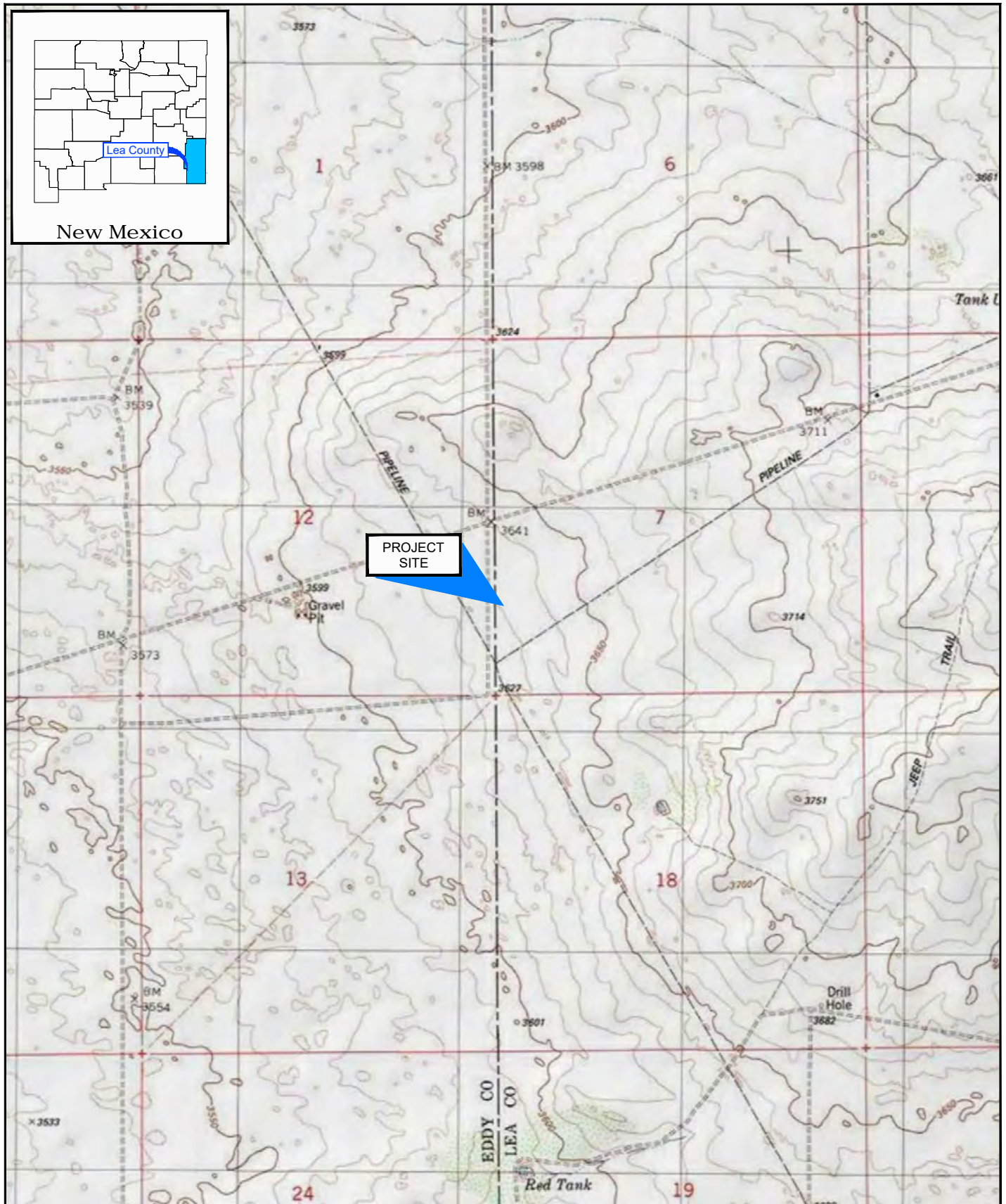
Tom Larson
Project Director

BH/TL/1

Encl. Figure 1 – Site Location Map
 Figure 2 – Tin Horn Areas Assessment Concentration Map Prior to 2021
 Figure 3 – Tin Horn Area 2021 Soil Boring Concentration Map
 Figure 4 – Battery Area Assessment Concentration Map Prior to 2021
 Figure 5 – Battery Area 2021 Soil Boring Concentration Map
 Figure 6 – Surrounding Area Soil Boring Concentration Map
 Figure 7 – Tin Horn Area Proposed Excavation Area
 Figure 8 – Battery Area Proposed Excavation Area
 Table 1 – Summary of Soil Analytical Data
 Attachment A – Initial C-141s for 1RP-2281, 1RP-2784, 1RP-2790, 1RP-4800 & 1RP-4801
 Attachment B – Site Characterization Documentation
 Attachment C – GHD and Cascade Drilling Soil Boring Logs
 Attachment D – NMSOE Well Permits and BLM Sundry Notice
 Attachment E – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: James Kennedy

Figures



Source: USGS 7.5 Minute Quad "The Divide and Livingston Ridge, New Mexico"

Lat/Long: 32.402374° North, 103.722648° West

0 1000 2000ft

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



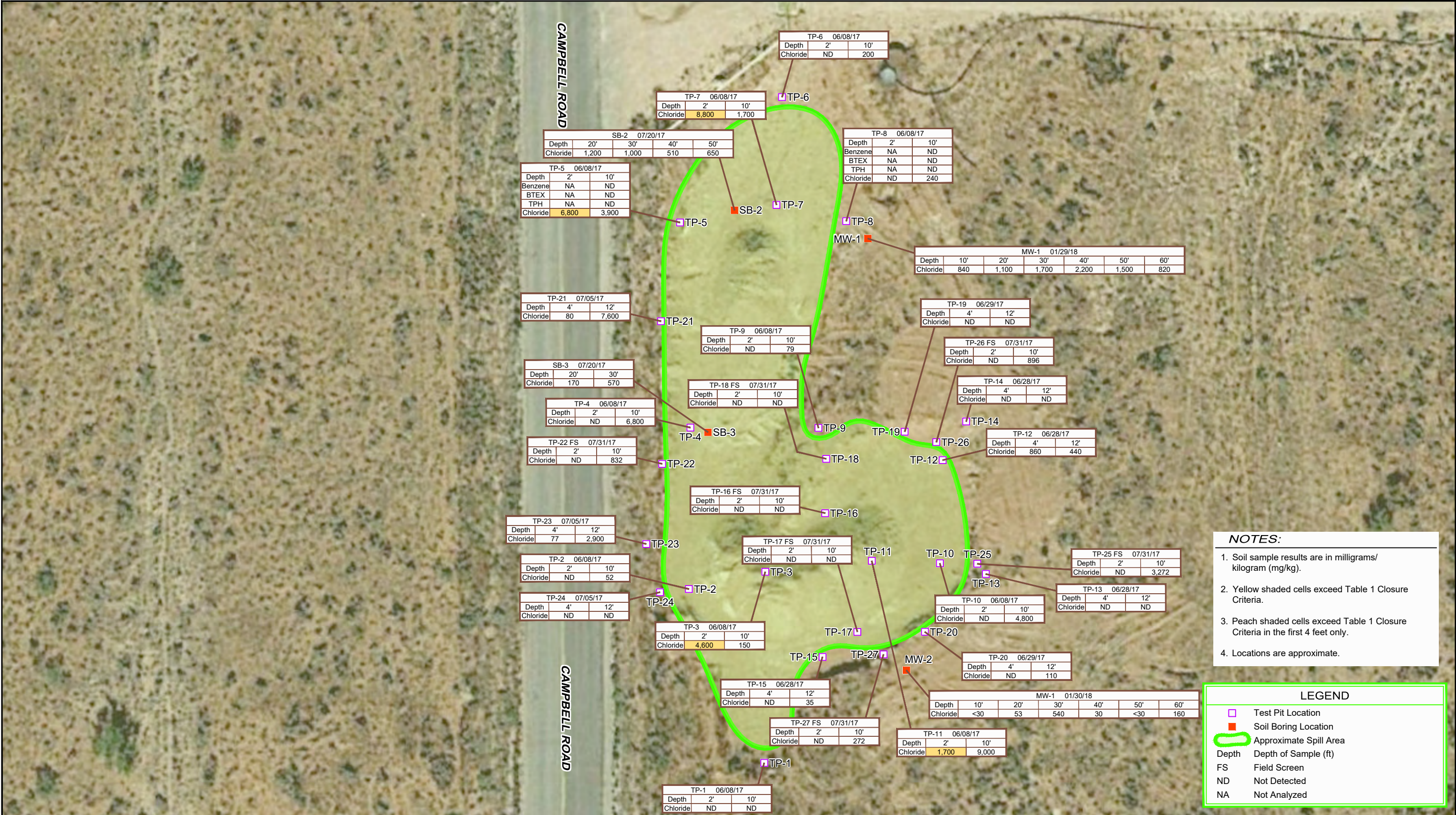
EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1

SITE LOCATION MAP

11220747

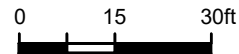
Jan 19, 2022

FIGURE 1



Source: Image © 2016 Google - Imagery Date: February 1, 2017

Lat/Long: 32.402374° North, 103.722648° West



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

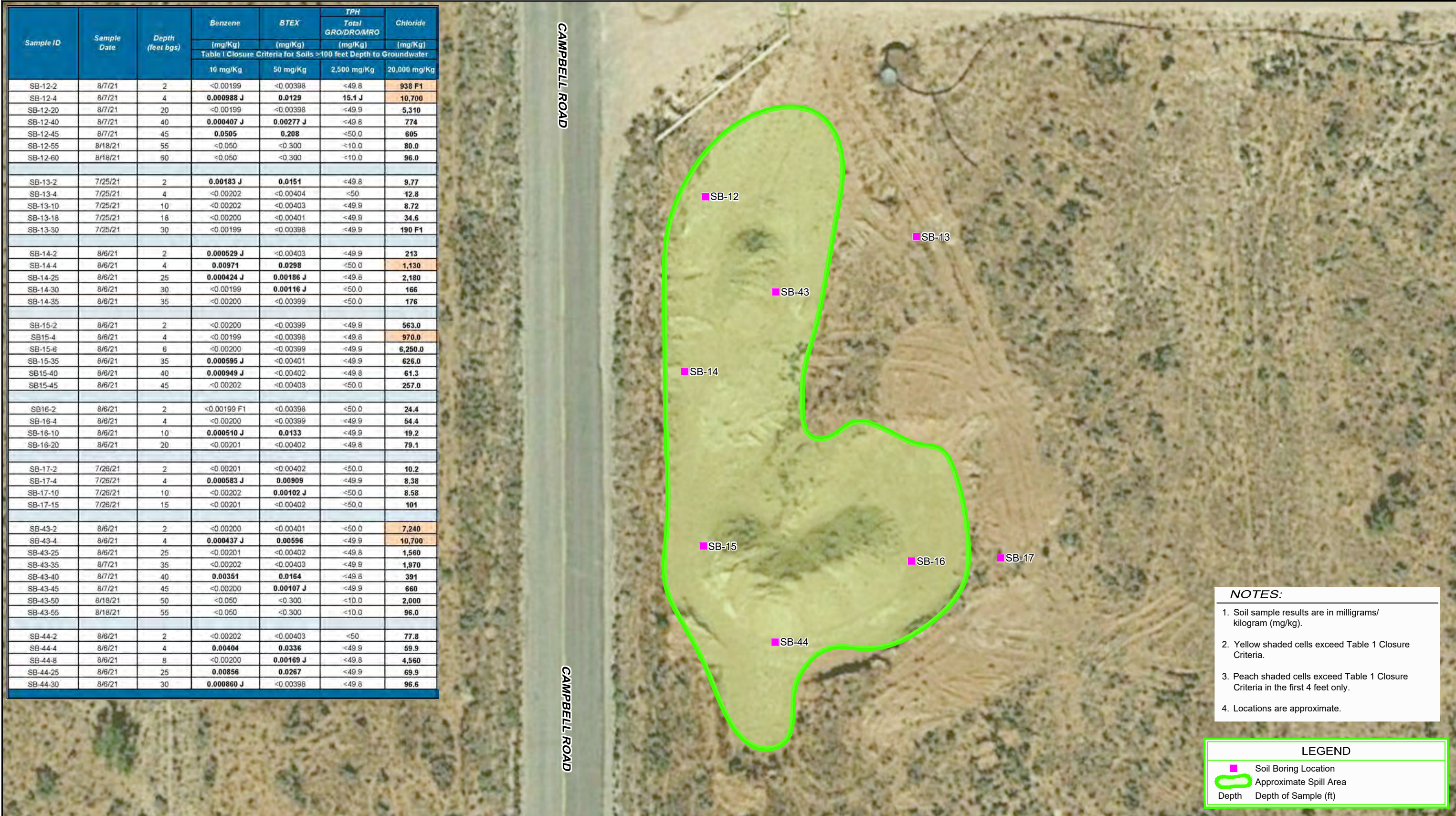


EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1
TIN HORN AREA ASSESSMENT
CONCENTRATION MAP PRIOR TO 2021

11220747

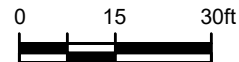
Jan 20, 2022

FIGURE 2



Source: Image © 2016 Google - Imagery Date: February 1, 2017

Lat/Long: 32.402374° North, 103.722648° West



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

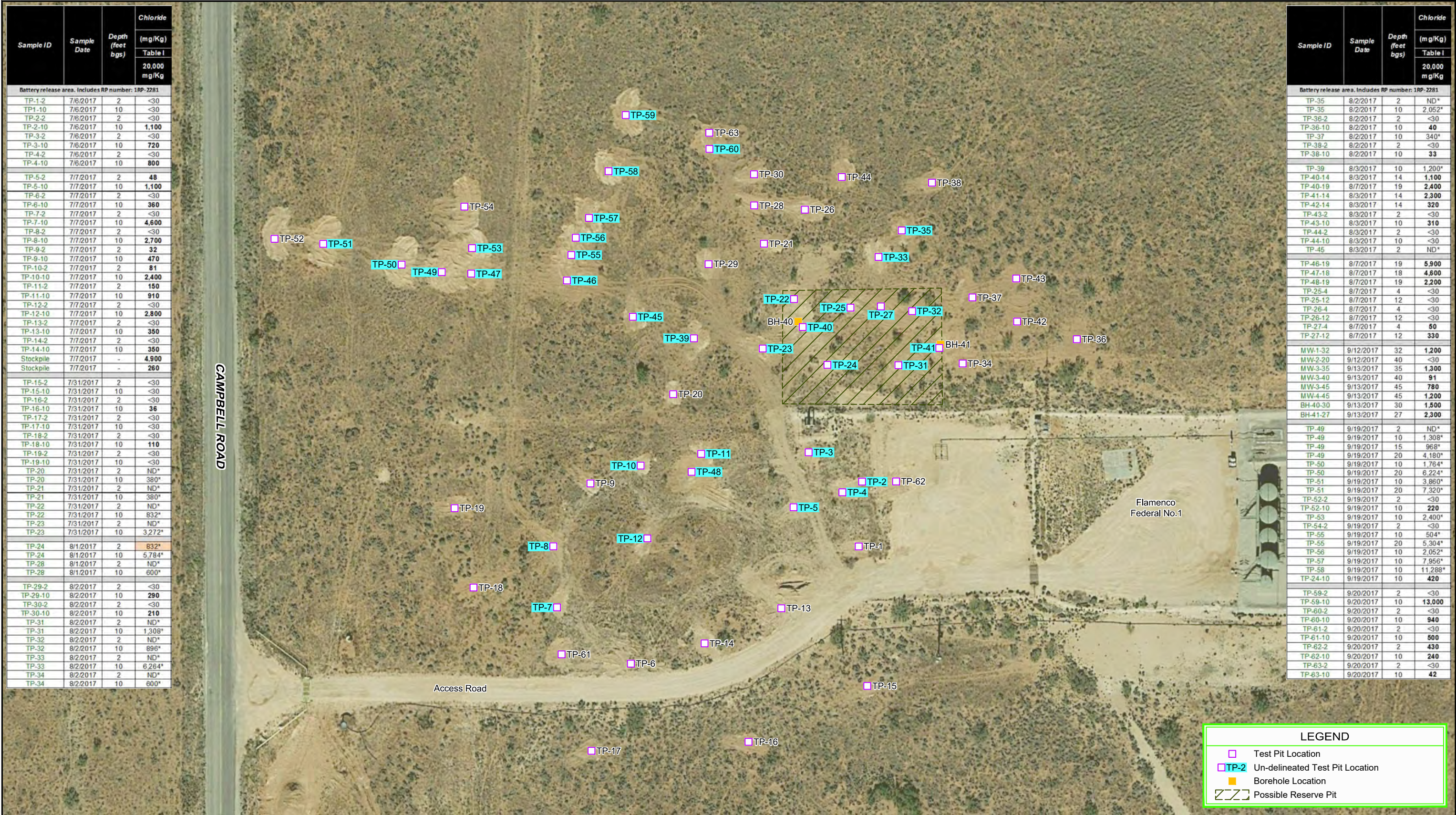


EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1
TIN HORN AREA 2021
SOIL BORING CONCENTRATION MAP

11220747

Jan 19, 2022

FIGURE 3



Source: Image © 2016 Google - Imagery Date: February 1, 2017

Lat/Long: 32.403052° North, 103.721576° West

NOTES:

- Sample results are in milligrams/kilogram (mg/kg).
- Yellow shaded cells exceed Table 1 Closure Criteria.
- Peach shaded cells exceed Table 1 Closure Criteria in the first 4 feet only.
- Locations are approximate.

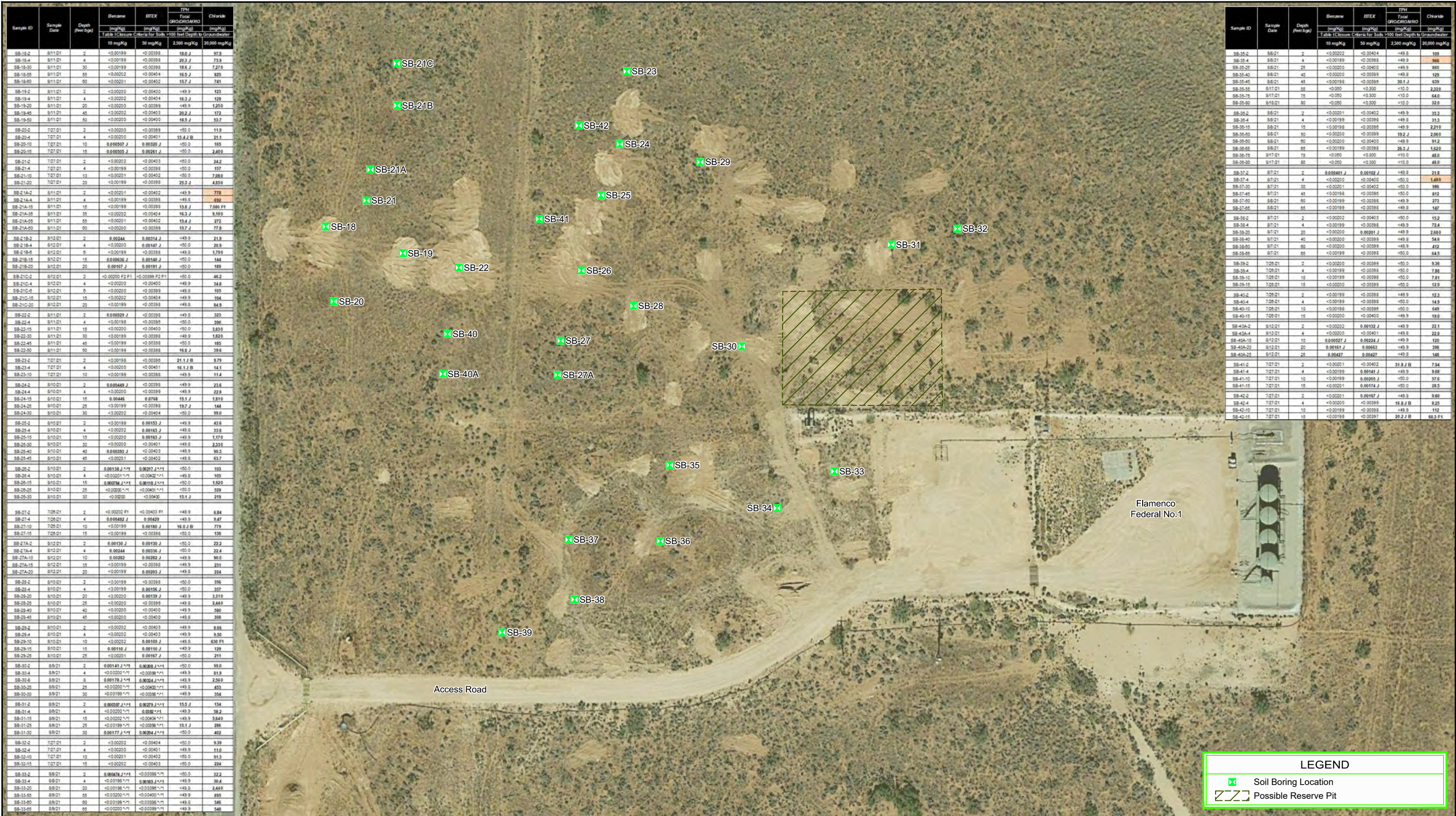


EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1 - BATTERY AREA
BATTERY AREA ASSESSMENT
CONCENTRATION MAP PRIOR TO 2021

11220747

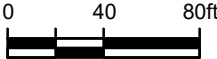
Jan 20, 2022

FIGURE 4



Source: Image © 2016 Google - Imagery Date: February 1, 2017

Lat/Long: 32.403052° North, 103.721576° West



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



NOTES:

1. Sample results are in milligrams/kilogram (mg/kg).
2. Yellow shaded cells exceed Table 1 Closure Criteria.
3. Peach shaded cells exceed Table 1 Closure Criteria in the first 4 feet only.
4. Locations are approximate.

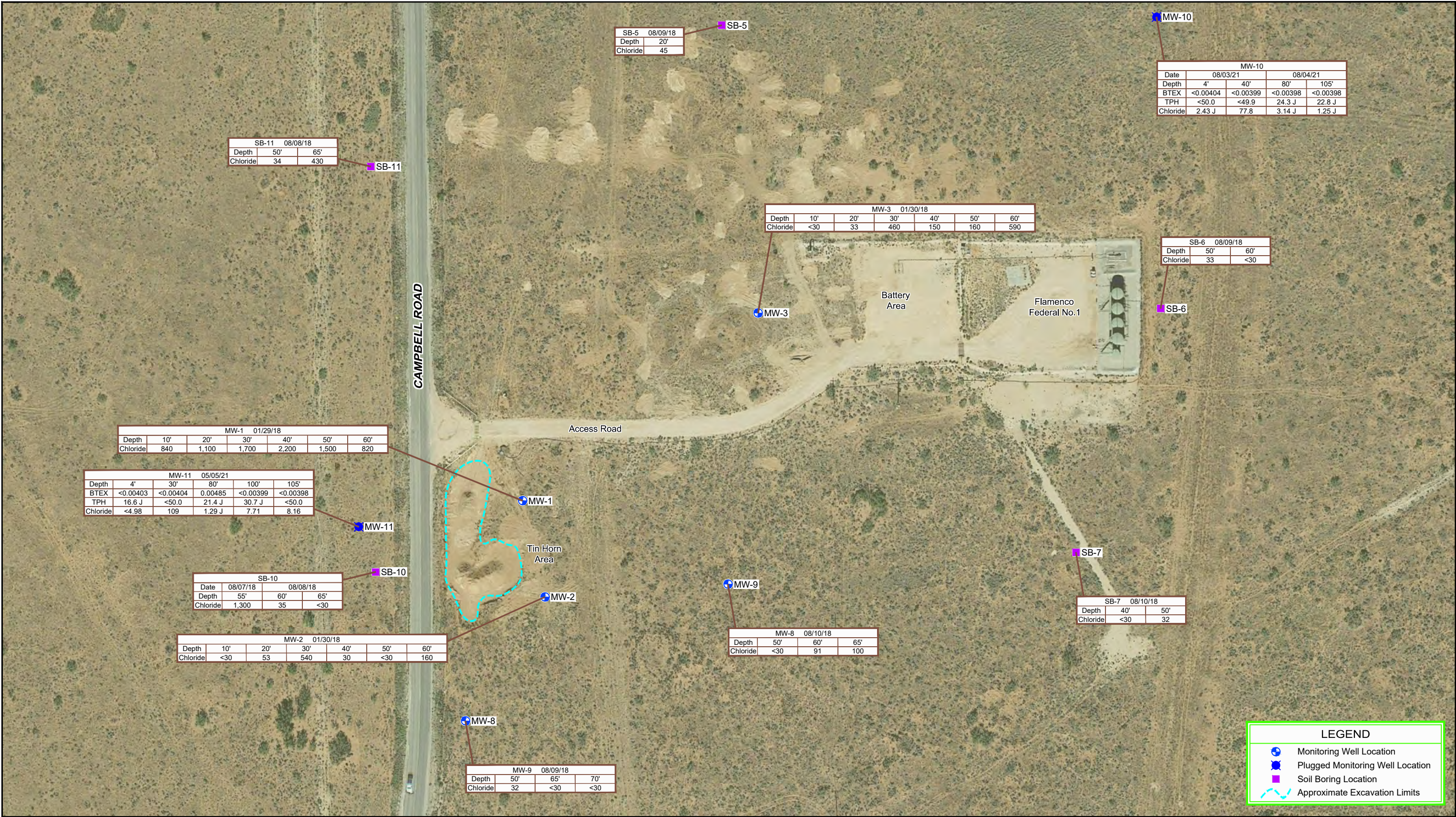


EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1 - BATTERY AREA
BATTERY AREA 2021
SOIL BORING CONCENTRATION MAP

11220747

Jan 20, 2022

FIGURE 5



Source: Image © 2017 Google - Imagery Date: November 2, 2017 Lat/Long: 32.402374° North, 103.722648° West

060120ft

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

NOTES:

- Chloride groundwater sample results in milligrams/kilogram (mg/kg).
- MW-10 and MW-11, TD 105' were dry and plugged on August 5, 2021.
- Plugging reports and boring log details provided in Attachment B.
- Locations are approximate.

EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1

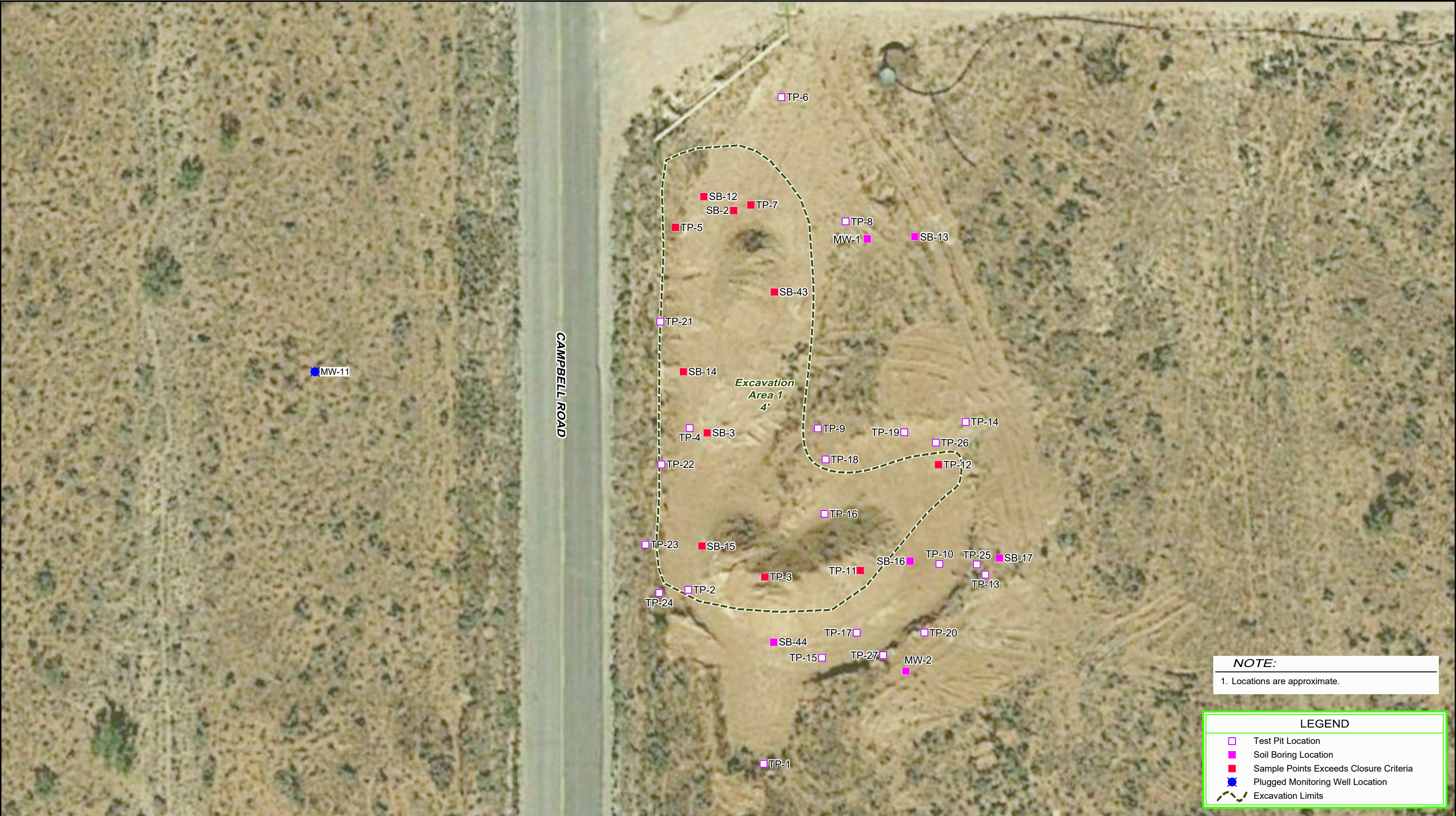
SURROUNDING AREA SOIL BORING CONCENTRATIONS MAP

11220747
Jan 26, 2022

FIGURE 6

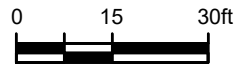
Released to Imaging: 5/2/2022 3:37:29 PM

CAD File: \\ghdnet\ghd\US\Midland\Projects\56211220747\Digital_Design\ACAD 2018\Figures\RPT00211220747-GHD-0000-RPT-EN-0103_DL-002.dwg



Source: Image © 2016 Google - Imagery Date: February 1, 2017

Lat/Long: 32.402374° North, 103.722648° West



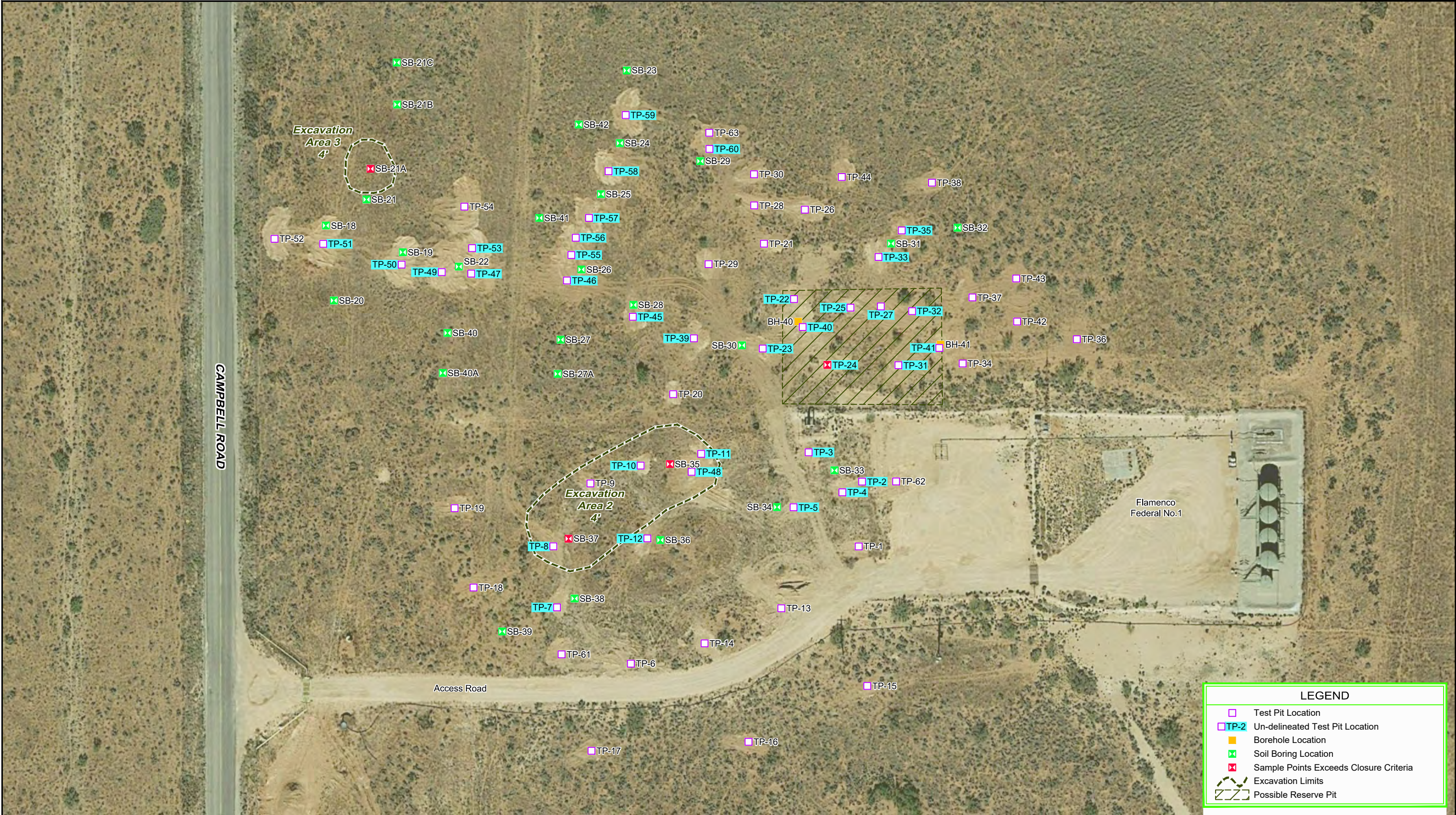
Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)



EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1
TIN HORN AREA
PROPOSED EXCAVATION AREA

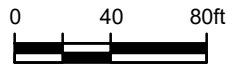
11220747
Feb 21, 2022

FIGURE 7



Source: Image © 2016 Google - Imagery Date: February 1, 2017

Lat/Long: 32.403052° North, 103.721576° West



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



NOTE:

1. Locations are approximate.



EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1 - BATTERY AREA

11220747
Jan 28, 2022

BATTERY AREA PROPOSED EXCAVATION AREA

FIGURE 8

Tables

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg	---	2,500 mg/Kg	20,000 mg/Kg	
Tin horn release area. Includes RP numbers: 1RP-2784, 1RP-2790, 1RP-4800, and 1RP-4801												
TP-1-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-1-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	<30
TP-2-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-2-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	52
TP-3-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	4,600
TP-3-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	150
TP-4-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-4-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	6,800
TP-5-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	6,800
TP-5-10	6/8/2017	10	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.5	<47.0	<61.4	3,900
TP-6-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-6-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	200
TP-7-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	8,800
TP-7-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	1,700
TP-8-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-8-10	6/8/2017	10	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.6	<48.0	<62.5	240
TP-9-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-9-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	79
TP-10-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-10-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	4,800
TP-11-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	1,700
TP-11-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	9,000
TP-12-4	6/28/2017	4	-	-	-	-	-	-	-	-	-	860
TP-12-12	6/28/2017	12	-	-	-	-	-	-	-	-	-	440
TP-13-4	6/28/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-13-12	6/28/2017	12	-	-	-	-	-	-	-	-	-	<30
TP-14-4	6/28/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-14-12	6/28/2017	12	-	-	-	-	-	-	-	-	-	<30
TP-15-4	6/28/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-15-12	6/28/2017	12	-	-	-	-	-	-	-	-	-	35
TP-19-4	6/29/2017	4	-	-	-	-	-	-	-	-	-	<30

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
TP-19-12	6/29/2017	12	-	-	-	-	-	-	-	-	-	<30
TP-20-4	6/29/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-20-12	6/29/2017	12	-	-	-	-	-	-	-	-	-	110
Stockpile	6/29/2017		-	-	-	-	-	-	-	-	-	180
TP-21-4	7/5/2017	4	-	-	-	-	-	-	-	-	-	80
TP-21-12	7/5/2017	12	-	-	-	-	-	-	-	-	-	7,600
TP-23-4	7/5/2017	4	-	-	-	-	-	-	-	-	-	77
TP-23-12	7/5/2017	12	-	-	-	-	-	-	-	-	-	2,900
TP-24-4	7/5/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-24-12	7/5/2017	12	-	-	-	-	-	-	-	-	-	<30
SB-3-20	7/19/2017	20	-	-	-	-	-	-	-	-	-	170
SB-3-30	7/19/2017	30	-	-	-	-	-	-	-	-	-	570
SB-2-20	7/20/2017	20	-	-	-	-	-	-	-	-	-	1,200
SB-2-30	7/20/2017	30	-	-	-	-	-	-	-	-	-	1,000
SB-2-40	7/20/2017	40	-	-	-	-	-	-	-	-	-	510
SB-2-50	7/20/2017	50	-	-	-	-	-	-	-	-	-	650
TP-16	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-16	7/31/2017	10	-	-	-	-	-	-	-	-	-	ND*
TP-17	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-17	7/31/2017	10	-	-	-	-	-	-	-	-	-	ND*
TP-18	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-18	7/31/2017	10	-	-	-	-	-	-	-	-	-	ND*
TP-22	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-22	7/31/2017	10	-	-	-	-	-	-	-	-	-	832*
TP-25	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-25	7/31/2017	10	-	-	-	-	-	-	-	-	-	3,272*
TP-26	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-26	7/31/2017	10	-	-	-	-	-	-	-	-	-	896*
TP-27	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-27	7/31/2017	10	-	-	-	-	-	-	-	-	-	272*

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
MW-1-32	9/12/2017	32	-	-	-	-	-	-	-	-	-	1,200
MW-2-20	9/12/2017	20	-	-	-	-	-	-	-	-	-	<30
MW-4-45	9/13/2017	45	-	-	-	-	-	-	-	-	-	1,200
MW-3-35	9/13/2017	35	-	-	-	-	-	-	-	-	-	1,300
MW-3-40	9/13/2017	40	-	-	-	-	-	-	-	-	-	91
MW-3-45	9/13/2017	45	-	-	-	-	-	-	-	-	-	780
BH-41-27	9/13/2017	27	-	-	-	-	-	-	-	-	-	2,300
BH-40-30	9/13/2017	30	-	-	-	-	-	-	-	-	-	1,500
MW-1-10 (MW-5)	1/29/2018	10	-	-	-	-	-	-	-	-	-	840
MW-1-20 (MW-5)	1/29/2018	20	-	-	-	-	-	-	-	-	-	1,100
MW-1-30 (MW-5)	1/29/2018	30	-	-	-	-	-	-	-	-	-	1,700
MW-1-40 (MW-5)	1/29/2018	40	-	-	-	-	-	-	-	-	-	2,200
MW-1-50 (MW-5)	1/29/2018	50	-	-	-	-	-	-	-	-	-	1,500
MW-1-60 (MW-5)	1/29/2018	60	-	-	-	-	-	-	-	-	-	820
MW-2-10 (MW-6)	1/29/2018	10	-	-	-	-	-	-	-	-	-	< 30
MW-2-20 (MW-6)	1/29/2018	20	-	-	-	-	-	-	-	-	-	53
MW-2-30 (MW-6)	1/29/2018	30	-	-	-	-	-	-	-	-	-	540
MW-2-40 (MW-6)	1/29/2018	40	-	-	-	-	-	-	-	-	-	30
MW-2-50 (MW-6)	1/29/2018	50	-	-	-	-	-	-	-	-	-	< 30
MW-2-60 (MW-6)	1/29/2018	60	-	-	-	-	-	-	-	-	-	160
MW-3-10 (MW-7)	1/29/2018	10	-	-	-	-	-	-	-	-	-	< 30
MW-3-20 (MW-7)	1/29/2018	20	-	-	-	-	-	-	-	-	-	33
MW-3-30 (MW-7)	1/29/2018	30	-	-	-	-	-	-	-	-	-	460
MW-3-40 (MW-7)	1/29/2018	40	-	-	-	-	-	-	-	-	-	150
MW-3-50 (MW-7)	1/29/2018	50	-	-	-	-	-	-	-	-	-	160
MW-3-60 (MW-7)	1/29/2018	60	-	-	-	-	-	-	-	-	-	590
SB-12-2	8/7/21	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	938 F1
SB-12-4	8/7/21	4	0.000988 J	0.00334 B	0.0036	0.00497	0.0129	<49.9	15.1 J	<49.9	15.1 J	10,700
SB-12-20	8/7/21	20	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	5,310
SB-12-40	8/7/21	40	0.000407 J	0.000889 J B	0.000859 J	<0.00401	0.00277 J	<49.8	<49.8	<49.8	<49.8	774

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-12-45	8/7/21	45	0.0505	0.00602 B	0.0547	0.0969	0.208	<50.0	<50.0	<50.0	<50.0	605
SB-12-55	8/18/21	55	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SB-12-60	8/18/21	60	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
SB-13-2	7/25/21	2	0.00183 J	<0.00200	0.00188 J	0.0114	0.0151	<49.8	<49.8	<49.8	<49.8	9.77
SB-13-4	7/25/21	4	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50	<50	<50	<50	12.8
SB-13-10	7/25/21	10	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	8.72
SB-13-18	7/25/21	18	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	34.6
SB-13-30	7/25/21	30	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	190 F1
SB-14-2	8/6/21	2	0.000529 J	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	213
SB-14-4	8/6/21	4	0.00971	0.00269 B	0.00986	0.00750	0.0298	<50.0	<50.0	<50.0	<50.0	1,130
SB-14-25	8/6/21	25	0.000424 J	0.000983 J B	<0.00201	<0.00402	0.00186 J	<49.8	<49.8	<49.8	<49.8	2,180
SB-14-30	8/6/21	30	<0.00199	<0.00199	0.000581 J	<0.00398	0.00116 J	<50.0	<50.0	<50.0	<50.0	166
SB-14-35	8/6/21	35	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	176
SB-15-2	8/6/21	2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	563.0
SB15-4	8/6/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	970.0
SB-15-6	8/6/21	6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	6,250.0
SB-15-35	8/6/21	35	0.000595 J	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	626.0
SB15-40	8/6/21	40	0.000949 J	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	61.3
SB15-45	8/6/21	45	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	257.0
SB16-2	8/6/21	2	<0.00199 F1	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	24.4
SB-16-4	8/6/21	4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	54.4
SB-16-10	8/6/21	10	0.000510 J	0.000880 J B	0.000630 J	0.0113	0.0133	<49.9	<49.9	<49.9	<49.9	19.2
SB-16-20	8/6/21	20	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	79.1

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg	---	2,500 mg/Kg	20,000 mg/Kg	
SB-17-2	7/26/21	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	10.2
SB-17-4	7/26/21	4	0.000583 J	0.00283	0.000943 J	0.00473	0.00909	<49.9	<49.9	<49.9	<49.9	8.38
SB-17-10	7/26/21	10	<0.00202	<0.00202	0.000644 J	<0.00403	0.00102 J	<50.0	<50.0	<50.0	<50.0	8.58
SB-17-15	7/26/21	15	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	101
SB-43-2	8/6/21	2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	7,240
SB-43-4	8/6/21	4	0.000437 J	0.00164 J B	0.00195 J	0.00193 J	0.00596	<49.9	<49.9	<49.9	<49.9	10,700
SB-43-25	8/6/21	25	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	1,560
SB-43-35	8/7/21	35	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	1,970
SB-43-40	8/7/21	40	0.00351	0.00538 B	0.0034	0.00415	0.0164	<49.8	<49.8	<49.8	<49.8	391
SB-43-45	8/7/21	45	<0.00200	0.000502 J B	<0.00200	<0.00400	0.00107 J	<49.9	<49.9	<49.9	<49.9	660
SB-43-50	8/18/21	50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,000
SB-43-55	8/18/21	55	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
SB-44-2	8/6/21	2	<0.00202	0.000781 J	<0.00202	<0.00403	<0.00403	<50	<50	<50	<50	77.8
SB-44-4	8/6/21	4	0.00404	0.00168 J	0.00452	0.0234	0.0336	<49.9	<49.9	<49.9	<49.9	59.9
SB-44-8	8/6/21	8	<0.00200	0.000852 J	<0.00200	<0.00400	0.00169 J	<49.8	<49.8	<49.8	<49.8	4,560
SB-44-25	8/6/21	25	0.00856	0.00154 J	0.00669	0.00989	0.0267	<49.9	<49.9	<49.9	<49.9	69.9
SB-44-30	8/6/21	30	0.000860 J	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	96.6
Battery release area. Includes RP number: 1RP-2281												
TP-1-2	7/6/2017	2	-	-	-	-	-	-	-	-	-	<30
TP1-10	7/6/2017	10	-	-	-	-	-	-	-	-	-	<30
TP-2-2	7/6/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-2-10	7/6/2017	10	-	-	-	-	-	-	-	-	-	1,100
TP-3-2	7/6/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-3-10	7/6/2017	10	-	-	-	-	-	-	-	-	-	720
TP-4-2	7/6/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-4-10	7/6/2017	10	-	-	-	-	-	-	-	-	-	800

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
TP-5-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	48
TP-5-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	1,100
TP-6-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-6-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	360
TP-7-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-7-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	4,600
TP-8-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-8-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	2,700
TP-9-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	32
TP-9-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	470
TP-10-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	81
TP-10-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	2,400
TP-11-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	150
TP-11-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	910
TP-12-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-12-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	2,800
TP-13-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-13-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	350
TP-14-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-14-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	350
Stockpile	7/7/2017	-	-	-	-	-	-	-	-	-	-	4,900
Stockpile	7/7/2017	-	-	-	-	-	-	-	-	-	-	260
TP-15-2	7/31/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-15-10	7/31/2017	10	-	-	-	-	-	-	-	-	-	<30
TP-16-2	7/31/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-16-10	7/31/2017	10	-	-	-	-	-	-	-	-	-	36
TP-17-2	7/31/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-17-10	7/31/2017	10	-	-	-	-	-	-	-	-	-	<30
TP-18-2	7/31/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-18-10	7/31/2017	10	-	-	-	-	-	-	-	-	-	110
TP-19-2	7/31/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-19-10	7/31/2017	10	-	-	-	-	-	-	-	-	-	<30
TP-20	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
TP-20	7/31/2017	10	-	-	-	-	-	-	-	-	-	380*
TP-21	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-21	7/31/2017	10	-	-	-	-	-	-	-	-	-	380*
TP-22	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-22	7/31/2017	10	-	-	-	-	-	-	-	-	-	832*
TP-23	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-23	7/31/2017	10	-	-	-	-	-	-	-	-	-	3,272*
TP-24	8/1/2017	2	-	-	-	-	-	-	-	-	-	832*
TP-24	8/1/2017	10	-	-	-	-	-	-	-	-	-	5,784*
TP-28	8/1/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-28	8/1/2017	10	-	-	-	-	-	-	-	-	-	600*
TP-29-2	8/2/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-29-10	8/2/2017	10	-	-	-	-	-	-	-	-	-	290
TP-30-2	8/2/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-30-10	8/2/2017	10	-	-	-	-	-	-	-	-	-	210
TP-31	8/2/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-31	8/2/2017	10	-	-	-	-	-	-	-	-	-	1,308*
TP-32	8/2/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-32	8/2/2017	10	-	-	-	-	-	-	-	-	-	896*
TP-33	8/2/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-33	8/2/2017	10	-	-	-	-	-	-	-	-	-	6,264*
TP-34	8/2/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-34	8/2/2017	10	-	-	-	-	-	-	-	-	-	600*
TP-35	8/2/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-35	8/2/2017	10	-	-	-	-	-	-	-	-	-	2,052*
TP-36-2	8/2/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-36-10	8/2/2017	10	-	-	-	-	-	-	-	-	-	40
TP-37	8/2/2017	10	-	-	-	-	-	-	-	-	-	340*
TP-38-2	8/2/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-38-10	8/2/2017	10	-	-	-	-	-	-	-	-	-	33
TP-39	8/3/2017	10	-	-	-	-	-	-	-	-	-	1,200*
TP-40-14	8/3/2017	14	-	-	-	-	-	-	-	-	-	1,100

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
TP-40-19	8/7/2017	19	-	-	-	-	-	-	-	-	-	2,400
TP-41-14	8/3/2017	14	-	-	-	-	-	-	-	-	-	2,300
TP-42-14	8/3/2017	14	-	-	-	-	-	-	-	-	-	320
TP-43-2	8/3/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-43-10	8/3/2017	10	-	-	-	-	-	-	-	-	-	310
TP-44-2	8/3/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-44-10	8/3/2017	10	-	-	-	-	-	-	-	-	-	<30
TP-45	8/3/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-46-19	8/7/2017	19	-	-	-	-	-	-	-	-	-	5,900
TP-47-18	8/7/2017	18	-	-	-	-	-	-	-	-	-	4,600
TP-48-19	8/7/2017	19	-	-	-	-	-	-	-	-	-	2,200
TP-25-4	8/7/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-25-12	8/7/2017	12	-	-	-	-	-	-	-	-	-	<30
TP-26-4	8/7/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-26-12	8/7/2017	12	-	-	-	-	-	-	-	-	-	<30
TP-27-4	8/7/2017	4	-	-	-	-	-	-	-	-	-	50
TP-27-12	8/7/2017	12	-	-	-	-	-	-	-	-	-	330
MW-1-32	9/12/2017	32	-	-	-	-	-	-	-	-	-	1,200
MW-2-20	9/12/2017	40	-	-	-	-	-	-	-	-	-	<30
MW-3-35	9/13/2017	35	-	-	-	-	-	-	-	-	-	1,300
MW-3-40	9/13/2017	40	-	-	-	-	-	-	-	-	-	91
MW-3-45	9/13/2017	45	-	-	-	-	-	-	-	-	-	780
MW-4-45	9/13/2017	45	-	-	-	-	-	-	-	-	-	1,200
BH-40-30	9/13/2017	30	-	-	-	-	-	-	-	-	-	1,500
BH-41-27	9/13/2017	27	-	-	-	-	-	-	-	-	-	2,300
TP-49	9/19/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-49	9/19/2017	10	-	-	-	-	-	-	-	-	-	1,308*
TP-49	9/19/2017	15	-	-	-	-	-	-	-	-	-	968*
TP-49	9/19/2017	20	-	-	-	-	-	-	-	-	-	4,180*
TP-50	9/19/2017	10	-	-	-	-	-	-	-	-	-	1,764*
TP-50	9/19/2017	20	-	-	-	-	-	-	-	-	-	6,224*
TP-51	9/19/2017	10	-	-	-	-	-	-	-	-	-	3,860*

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
TP-51	9/19/2017	20	-	-	-	-	-	-	-	-	-	7,320*
TP-52-2	9/19/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-52-10	9/19/2017	10	-	-	-	-	-	-	-	-	-	220
TP-53	9/19/2017	10	-	-	-	-	-	-	-	-	-	2,400*
TP-54-2	9/19/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-55	9/19/2017	10	-	-	-	-	-	-	-	-	-	504*
TP-55	9/19/2017	20	-	-	-	-	-	-	-	-	-	5,304*
TP-56	9/19/2017	10	-	-	-	-	-	-	-	-	-	2,052*
TP-57	9/19/2017	10	-	-	-	-	-	-	-	-	-	7,956*
TP-58	9/19/2017	10	-	-	-	-	-	-	-	-	-	11,288*
TP-24-10	9/19/2017	10	-	-	-	-	-	-	-	-	-	420
TP-59-2	9/20/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-59-10	9/20/2017	10	-	-	-	-	-	-	-	-	-	13,000
TP-60-2	9/20/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-60-10	9/20/2017	10	-	-	-	-	-	-	-	-	-	940
TP-61-2	9/20/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-61-10	9/20/2017	10	-	-	-	-	-	-	-	-	-	500
TP-62-2	9/20/2017	2	-	-	-	-	-	-	-	-	-	430
TP-62-10	9/20/2017	10	-	-	-	-	-	-	-	-	-	240
TP-63-2	9/20/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-63-10	9/20/2017	10	-	-	-	-	-	-	-	-	-	42
SB-18-2	8/11/21	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	18.0 J	<49.9	18.0 J	97.9
SB-18-4	8/11/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	20.3 J	<49.8	20.3 J	75.9
SB-18-30	8/11/21	30	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	18.6 J	<50.0	18.6 J	7,270
SB-18-55	8/11/21	55	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	16.5 J	<50.0	16.5 J	825
SB-18-60	8/11/21	60	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	15.7 J	<49.9	15.7 J	741
SB-19-2	8/11/21	2	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	123
SB-19-4	8/11/21	4	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	16.3 J	<49.8	16.3 J	129
SB-19-20	8/11/21	20	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	1,250

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-19-45	8/11/21	45	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.8	20.2 J	<49.8	20.2 J	172
SB-19-50	8/11/21	50	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	18.5 J	<49.9	18.5 J	53.7
SB-20-2	7/27/21	2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	11.9
SB-20-4	7/27/21	4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	15.4 J	<49.9	<49.9	15.4 J B	21.1
SB-20-10	7/27/21	10	0.000507 J	0.00117 J	0.000736 J	<0.00402	0.00320 J	<50.0	<50.0	<50.0	<50.0	165
SB-20-15	7/27/21	15	0.000505 J	<0.00200	0.00114 J	<0.00401	0.00261 J	<50.0	<50.0	<50.0	<50.0	2,400
SB-21-2	7/27/21	2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	24.2
SB-21-4	7/27/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	157
SB-21-10	7/27/21	10	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	7,080
SB-21-20	7/27/21	20	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	25.3 J	<49.9	<49.9	25.3 J	4,850
SB-21A-2	8/11/21	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	778
SB-21A-4	8/11/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	692
SB-21A-15	8/11/21	15	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	15.8 J	<49.9	15.8 J	7,080 F1
SB-21A-35	8/11/21	35	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	16.3 J	<50.0	16.3 J	9,180
SB-21A-55	8/11/21	55	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	15.4 J	<49.8	15.4 J	272
SB-21A-60	8/11/21	60	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	15.7 J	<50.0	15.7 J	77.8
SB-21B-2	8/12/21	2	0.00244	<0.00198	<0.00198	<0.00397	0.00314 J	<49.9	<49.9	<49.9	<49.9	21.9
SB-21B-4	8/12/21	4	<0.00200	<0.00200	0.00147 J	<0.00400	0.00147 J	<50.0	<50.0	<50.0	<50.0	20.9
SB-21B-6	8/12/21	6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	1,790
SB-21B-15	8/12/21	15	0.000636 J	<0.00200	0.000761 J	<0.00399	0.00140 J	<50.0	<50.0	<50.0	<50.0	144
SB-21B-20	8/12/21	20	0.00107 J	<0.00200	0.000844 J	<0.00399	0.00191 J	<50.0	<50.0	<50.0	<50.0	189
SB-21C-2	8/12/21	2	<0.00200 F2 F1	<0.00200 F2 F1	<0.00200 F2 F1	F2 F1	<0.00399 F2 F1	<50.0	<50.0	<50.0	<50.0	46.2
SB-21C-4	8/12/21	4	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	34.8

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-21C-6	8/12/21	6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	105
SB-21C-15	8/12/21	15	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.9	<49.9	<49.9	<49.9	104
SB-21C-20	8/12/21	20	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	84.9
SB-22-2	8/11/21	2	0.000529 J	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	323
SB-22-4	8/11/21	4	<0.00198	0.000463 J	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	590
SB-22-15	8/11/21	15	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0	<50.0	<50.0	<50.0	3,830
SB-22-30	8/11/21	30	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	1,820
SB-22-45	8/11/21	45	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	185
SB-22-50	8/11/21	50	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	16.8 J	<49.8	16.8 J	39.6
SB-23-2	7/27/21	2	<0.00198	<0.00198	0.000637 J	<0.00396	<0.00396	<50.0	21.1 J B	<50.0	21.1 J B	9.79
SB-23-4	7/27/21	4	<0.00200	<0.00200	0.000911 J	<0.00401	<0.00401	<49.9	16.1 J B	<49.9	16.1 J B	14.1
SB-23-10	7/27/21	10	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	11.4
SB-24-2	8/10/21	2	0.000449 J	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	23.6
SB-24-4	8/10/21	4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	22.8
SB-24-15	8/10/21	15	0.00446	0.0205	0.00303	0.0488	0.0768	<49.8	15.1 J	<49.8	15.1 J	1,810
SB-24-25	8/10/21	25	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	19.7 J	19.7 J	144
SB-24-30	8/10/21	30	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	99.0
SB-25-2	8/10/21	2	<0.00199	0.00106 J	<0.00199	<0.00398	0.00153 J	<49.9	<49.9	<49.9	<49.9	43.6
SB-25-4	8/10/21	4	<0.00202	<0.00202	<0.00202	0.00163 J	0.00163 J	<49.8	<49.8	<49.8	<49.8	33.6
SB-25-15	8/10/21	15	<0.00200	0.00109 J	<0.00200	<0.00401	0.00163 J	<49.9	<49.9	<49.9	<49.9	1,170
SB-25-30	8/10/21	30	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	<49.8	<49.8	<49.8	2,330
SB-25-40	8/10/21	40	0.000393 J	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	90.3
SB-25-45	8/10/21	45	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	63.7

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg	---	2,500 mg/Kg	20,000 mg/Kg	
SB-26-2	8/10/21	2	0.00158 J *-*1	<0.00200	0.000594 J	<0.00399	0.00217 J *-*1	<50.0	<50.0	<50.0	<50.0	103
SB-26-4	8/10/21	4	<0.00201 *-*1	<0.00201	<0.00201	<0.00402	<0.00402 *-*1	<49.8	<49.8	<49.8	<49.8	105
SB-26-15	8/10/21	15	0.000784 J *-*1	<0.00200	<0.00200	<0.00399	0.00118 J *-*1	<50.0	<50.0	<50.0	<50.0	1,920
SB-26-25	8/10/21	25	<0.00200 *-*1	<0.00200	<0.00200	<0.00401	<0.00401 *-*1	<50.0	<50.0	<50.0	<50.0	529
SB-26-30	8/10/21	30	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0	15.1 J	<50.0	15.1 J	219
SB-27-2	7/26/21	2	<0.00202 F1	<0.00202 F2 F1	0.000600 J F2 F1	<0.00403 F1	<0.00403 F1	<49.9	<49.9	<49.9	<49.9	6.84
SB-27-4	7/26/21	4	0.000492 J	0.000749 J	<0.00200	0.00305 J	0.00429	<49.9	<49.9	<49.9	<49.9	9.47
SB-27-10	7/26/21	10	<0.00199	<0.00199	0.00134 J	<0.00398	0.00180 J	<49.9	16.0 J B	<49.9	16.0 J B	779
SB-27-15	7/26/21	15	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	138
SB-27A-2	8/12/21	2	0.00130 J	<0.00200	<0.00200	<0.00400	0.00130 J	<50.0	<50.0	<50.0	<50.0	22.2
SB-27A-4	8/12/21	4	0.00244	<0.00199	<0.00199	<0.00398	0.00336 J	<50.0	<50.0	<50.0	<50.0	22.4
SB-27A-10	8/12/21	10	0.00282	<0.00201	<0.00201	<0.00402	0.00282 J	<49.9	<49.9	<49.9	<49.9	90.0
SB-27A-15	8/12/21	15	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	231
SB-27A-20	8/12/21	20	<0.00199	<0.00199	<0.00199	0.00203 J	0.00203 J	<49.8	<49.8	<49.8	<49.8	224
SB-28-2	8/10/21	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	356
SB-28-4	8/10/21	4	<0.00199	0.000535 J	<0.00199	0.00102 J	0.00156 J	<50.0	<50.0	<50.0	<50.0	357
SB-28-20	8/10/21	20	<0.00200	0.00100 J	<0.00200	<0.00401	0.00139 J	<49.9	<49.9	<49.9	<49.9	3,310
SB-28-25	8/10/21	25	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	2,440
SB-28-40	8/10/21	40	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	580
SB-28-45	8/10/21	45	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.8	<49.8	<49.8	<49.8	308
SB-29-2	8/10/21	2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	8.66
SB-29-4	8/10/21	4	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	9.50
SB-29-10	8/10/21	10	<0.00202	0.000634 J	<0.00202	<0.00403	0.00109 J	<49.8	<49.8	<49.8	<49.8	630 F1

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-29-15	8/10/21	15	0.00110 J	<0.00200	<0.00200	<0.00399	0.00110 J	<49.9	<49.9	<49.9	<49.9	129
SB-29-25	8/10/21	25	<0.00201	<0.00201	0.00123 J	<0.00402	0.00167 J	<50.0	<50.0	<50.0	<50.0	211
SB-30-2	8/9/21	2	0.00141 J *-*1	<0.00202	<0.00202	<0.00403	0.00208 J *-*1	<50.0	<50.0	<50.0	<50.0	99.0
SB-30-4	8/9/21	4	<0.00200 *-*1	<0.00200	<0.00200	<0.00399	<0.00399 *-*1	<49.9	<49.9	<49.9	<49.9	81.9
SB-30-8	8/9/21	8	0.00178 J *-*1	<0.00199	<0.00199	0.00146 J	0.00324 J *-*1	<49.9	<49.9	<49.9	<49.9	2,560
SB-30-25	8/9/21	25	<0.00200 *-*1	<0.00200	<0.00200	<0.00400	<0.00400 *-*1	<49.8	<49.8	<49.8	<49.8	453
SB-30-30	8/9/21	30	<0.00199 *-*1	<0.00199	<0.00199	<0.00398	<0.00398 *-*1	<49.9	<49.9	<49.9	<49.9	354
SB-31-2	8/9/21	2	0.000397 J *-*1	0.00135 J	<0.00199	0.00104 J	0.00279 J *-*1	<49.8	15.5 J	<49.8	15.5 J	134
SB-31-4	8/9/21	4	<0.00200 *-*1	0.0392	<0.00200	<0.00400	0.0392 *-*1	<49.9	<49.9	<49.9	<49.9	58.2
SB-31-15	8/9/21	15	<0.00202 *-*1	<0.00202	<0.00202	<0.00404	<0.00404 *-*1	<49.9	<49.9	<49.9	<49.9	5,640
SB-31-25	8/9/21	25	<0.00199 *-*1	<0.00199	<0.00199	<0.00398	<0.00398 *-*1	<49.8	15.1 J	<49.8	15.1 J	286
SB-31-30	8/9/21	30	0.00177 J *-*1	<0.00201	<0.00201	0.00117 J	0.00294 J *-*1	<50.0	<50.0	<50.0	<50.0	402
SB-32-2	7/27/21	2	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	9.39
SB-32-4	7/27/21	4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	11.0
SB-32-10	7/27/21	10	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	91.3
SB-32-15	7/27/21	15	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	224
SB-33-2	8/8/21	2	0.000474 J *-*1	<0.00199	<0.00199	<0.00398	<0.00398 *-*1	<50.0	<50.0	<50.0	<50.0	32.2
SB-33-4	8/8/21	4	<0.00198 *-*1	<0.00198	<0.00198	0.000185 J	0.00185 J *-*1	<49.9	<49.9	<49.9	<49.9	30.4
SB-33-20	8/8/21	20	<0.00198 *-*1	<0.00198	<0.00198	<0.00396	<0.00396 *-*1	<49.8	<49.8	<49.8	<49.8	2,440
SB-33-55	8/9/21	55	<0.00200 *-*1	0.000459 J	<0.00200	<0.00400	<0.00400 *-*1	<49.9	<49.9	<49.9	<49.9	895
SB-33-60	8/9/21	60	<0.00199 *-*1	<0.00199	<0.00199	<0.00398	<0.00398 *-*1	<49.8	<49.8	<49.8	<49.8	346
SB-33-65	8/9/21	65	<0.00200 *-*1	<0.00200	<0.00200	<0.00399	<0.00399 *-*1	<49.9	<49.9	<49.9	<49.9	548
SB-34-2	8/8/21	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0 *1	<50.0	<50.0	<50.0	21.8

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-34-4	8/8/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0 *1	<50.0	<50.0	<50.0	23.8
SB-34-6	8/8/21	6	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.8 *1	<49.8	<49.8	<49.8	260
SB-34-15	8/8/21	15	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0 *1	16.2 J	<50.0	16.2 J	166
SB-34-25	8/8/21	25	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	58.5
SB-35-2	8/8/21	2	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	<49.8	<49.8	<49.8	109
SB-35-4	8/8/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9 *1	<49.9	<49.9	<49.9	966
SB-35-25	8/8/21	25	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9 *1	<49.9	<49.9	<49.9	860
SB-35-40	8/8/21	40	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8 *1	<49.8	<49.8	<49.8	129
SB-35-45	8/8/21	45	<0.00198	<0.00198	<0.00198	<0.00198	<0.00396	<49.9 *1	30.1 J	<49.9	30.1 J	639
SB-35-55	8/17/21	55	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,320
SB-35-75	8/17/21	75	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SB-35-80	8/18/21	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SB-36-2	8/8/21	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	35.3
SB-36-4	8/8/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	31.3
SB-36-15	8/8/21	15	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	2,210
SB-36-50	8/8/21	50	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	19.2 J	19.2 J	2,060
SB-36-60	8/8/21	60	<0.00200	0.000586 J	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	91.2
SB-36-65	8/8/21	65	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	26.3 J	<49.9	26.3 J	1,620
SB-36-75	8/17/21	75	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SB-36-80	8/17/21	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SB-37-2	8/7/21	2	0.000401 J	<0.00198	<0.00198	<0.00396	0.00102 J	<49.8	<49.8	<49.8	<49.8	21.8
SB-37-4	8/7/21	4	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0	<50.0	<50.0	<50.0	1,480
SB-37-30	8/7/21	30	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	986
SB-37-45	8/7/21	45	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	812

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-37-60	8/8/21	60	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	273
SB-37-65	8/8/21	65	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	147
SB-38-2	8/7/21	2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	15.2
SB-38-4	8/7/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	72.4
SB-38-20	8/7/21	20	<0.00200	<0.00200	<0.00200	0.00201 J	0.00201 J	<49.9	<49.9	<49.9	<49.9	2,680
SB-38-40	8/7/21	40	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	54.6
SB-38-60	8/7/21	60	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	412
SB-38-65	8/7/21	65	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	64.5
SB-39-2	7/26/21	2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	9.36
SB-39-4	7/26/21	4	<0.00199	<0.00199	0.000622 J	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	7.86
SB-39-10	7/26/21	10	<0.00199	<0.00199	0.000712 J	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	7.81
SB-39-15	7/26/21	15	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	12.9
SB-40-2	7/26/21	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	12.3
SB-40-4	7/26/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	14.9
SB-40-10	7/26/21	10	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	649
SB-40-15	7/26/21	15	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	19.0
SB-40A-2	8/12/21	2	<0.00202	<0.00202	0.00132 J	<0.00404	0.00132 J	<49.9	<49.9	<49.9	<49.9	22.1
SB-40A-4	8/12/21	4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	<49.8	<49.8	<49.8	22.9
SB-40A-10	8/12/21	10	0.000527 J	<0.00201	0.00111 J	<0.00402	0.00224 J	<49.9	<49.9	<49.9	<49.9	120
SB-40A-20	8/12/21	20	0.00161 J	0.00287	<0.00201	0.00215 J	0.00663	<49.9	<49.9	<49.9	<49.9	398
SB-40A-25	8/12/21	25	0.00427	<0.00200	<0.00200	<0.00399	0.00427	<49.8	<49.8	<49.8	<49.8	148
SB-41-2	7/27/21	2	<0.00201	<0.00201	0.000585 J	<0.00402	<0.00402	16.0 J	15.8 J B	<50.0	31.8 J B	7.94
SB-41-4	7/27/21	4	<0.00199	<0.00199	0.00141 J	<0.00398	0.00141 J	<49.9	<49.9	<49.9	<49.9	9.68

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg	---	2,500 mg/Kg	20,000 mg/Kg	
SB-41-10	7/27/21	10	<0.00199	0.000585 J	0.00104 J	<0.00398	0.00205 J	<50.0	<50.0	<50.0	<50.0	57.6
SB-41-15	7/27/21	15	<0.00201	<0.00201	0.00119 J	<0.00402	0.00174 J	<50.0	<50.0	<50.0	<50.0	28.5
SB-42-2	7/27/21	2	<0.00201	<0.00201	0.00131 J	<0.00402	0.00167 J	<49.8	<49.8	<49.8	<49.8	9.60
SB-42-4	7/27/21	4	<0.00200	<0.00200	0.000700 J	<0.00399	<0.00399	16.8 J	<49.7	<49.7	16.8 J B	8.25
SB-42-10	7/27/21	10	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	112
SB-42-15	7/27/21	15	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<50.0	20.2 J B	<50.0	20.2 J B	60.3 F1
Surrounding site locations												
MW-10-55 (SB-10)	8/7/2018	55	-	-	-	-	-	-	-	-	-	1,300
MW-10-60 (SB-10)	8/8/2018	60	-	-	-	-	-	-	-	-	-	35
MW-10-65 (SB-10)	8/8/2018	65	-	-	-	-	-	-	-	-	-	< 30
MW-11-50 (SB-11)	8/8/2018	50	-	-	-	-	-	-	-	-	-	34
MW-11-65 (SB-11)	8/8/2018	65	-	-	-	-	-	-	-	-	-	430
MW-5-20 (SB-5)	8/9/2018	20	-	-	-	-	-	-	-	-	-	45
MW-6-50 (SB-6)	8/9/2018	50	-	-	-	-	-	-	-	-	-	33
MW-6-60 (SB-6)	8/9/2018	60	-	-	-	-	-	-	-	-	-	< 30
MW-9-50 (SB-9)	8/9/2018	50	-	-	-	-	-	-	-	-	-	32
MW-9-60 (SB-9)	8/9/2018	60	-	-	-	-	-	-	-	-	-	< 30
MW-9-70 (SB-9)	8/9/2018	70	-	-	-	-	-	-	-	-	-	< 30
MW-7-40 (SB-7)	8/10/2018	40	-	-	-	-	-	-	-	-	-	< 30
MW-7-50 (SB-7)	8/10/2018	50	-	-	-	-	-	-	-	-	-	32
MW-8-50 (SB-8)	8/10/2018	50	-	-	-	-	-	-	-	-	-	< 30
MW-8-60 (SB-8)	8/10/2018	60	-	-	-	-	-	-	-	-	-	91
MW-8-65 (SB-8)	8/10/2018	65	-	-	-	-	-	-	-	-	-	100

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg	---	2,500 mg/Kg	20,000 mg/Kg	

*Indicates Field Data

Notes:

- Values reported in mg/kg
- < = Value Less than Reporting Limit (RL)
- Bold Indicates Analyte Detected
- BTEX analyses by EPA Method SW 8021B.
- TPH analyses by EPA Method SW 8015 Mod.
- GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
- Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table 1 Closure Criteria for the site.
- J - the target analytes was positively identified below the quantitation limit and above the detection limit.

Values Exceed Table 1 Closure Criteria
 Values Exceed Table 1 Closure Criteria in the first 4 feet only

B-BH-2 Sample Point Excavated

Attachment A

Initial C-141s for 1RP-2281, 1RP-2784, 1RP-2790, 1RP-4800, and 1RP-4801

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
AUG 24 2009
HOBBSCOCD

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 TH Street		Telephone No. 505-748-1471
Facility Name Flamenco Federal #1	API Number 30-025-31076	Facility Type SWD Battery

Surface Owner Federal	Mineral Owner Federal	Lease No. NM-84890
--------------------------	--------------------------	-----------------------

LOCATION OF RELEASE

API# 30-025-31076-00-00

Unit Letter L	Section 7	Township 22S	Range 32E	Feet from the 1650	North/South Line South	Feet from the 660	East/West Line West	County Lea
------------------	--------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	---------------

Latitude 32.40333 Longitude 103.72034

NATURE OF RELEASE

Type of Release Oil & Produced Water	Volume of Release 100 B/O & 600 B/PW	Volume Recovered 0 B/O & 0 B/PW
Source of Release Gun Barrel	Date and Hour of Occurrence 8/11/2009, PM	Date and Hour of Discovery 8/11/2009, AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson/NMOCD Hobbs (Voice mail & e-mail)	
By Whom? Robert Asher/YPC Environmental	Date and Hour 8/12/2009, AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		

WATER @ 280'


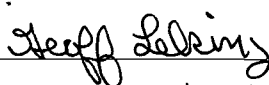
Describe Cause of Problem and Remedial Action Taken.*

Lightning struck 750 barrel fiberglass gun barrel tank, causing release and fire that destroyed 4 other tanks on location. Fire department called and main water line shut.

Describe Area Affected and Cleanup Action Taken.*

An approximate area of 120' X 120'. Produced water released from gun barrel broke through bermed tank battery and released in area west of the battery off location. Backhoe equipment started removing damaged tanks/equipment; impacted soils were excavated and taken to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX to determine next course of action taken. **Depth to Ground Water: >100' (approx. 280', per New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	ENV ENGINEER: Approved by 	
Title: Environmental Regulatory Agent	Approval Date: 08/24/09	Expiration Date: 10/26/09
E-mail Address: boba@ypcnm.com	Conditions of Approval: DELINEATE TO CLEANUP, SUBMIT FINAL C-141 BY 11P-09-09-2281	
Date: Thursday, August 20, 2009	Phone: 505-748-4217	Attached <input type="checkbox"/> 11P-09-09-2281

* Attach Additional Sheets If Necessary

SAMPLING MUST INCLUDE
CHLORIDES.

Incident ID	
District RP	1RP-2281
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Incident ID	
District RP	1RP-2281
Facility ID	
Application ID	

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

Printed Name: James F. Kennedy Title: Environmental Specialist
Signature: James F Kennedy Date: 2/21/2022
email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	1RP-2281
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: James F. Kennedy Title: Environmental Specialist
Signature: James F Kennedy Date: 2/21/2022
email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

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

Signature: Jennifer Nobui Date: 05/02/2022

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87414
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OCD
JUL 26 2011
RECEIVED

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 TH Street	Telephone No. 575-748-1471	
Facility Name Flamenco Federal #1	API Number 30-025-31076	Facility Type SWD Battery
Surface Owner Federal	Mineral Owner Federal	Lease No. NM-84890

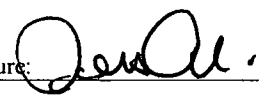
LOCATION OF RELEASE API# 30-025-31076

Unit Letter L	Section 7	Township 22S	Range 32E	Feet from the 1650	North/South Line South	Feet from the 660	East/West Line West	County Lea
------------------	--------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	---------------

Latitude 32.40333 Longitude 103.72034

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 150 B/PW	Volume Recovered 100 B/PW
Source of Release Water line	Date and Hour of Occurrence 7/12/2011, AM	Date and Hour of Discovery 7/12/2011, AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Maxey Brown/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 7/13/2011; PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Water line connection in tin horn failed, causing release. Vacuum truck called.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 45' X 45'. Vacuum truck picked up remaining produced water. Impacted soils being excavated and taken to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (Chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. Depth to Ground Water: >100' (approx. 280', Section 14, T22S-R32E, NMOSE and approx 200' per the ChevronTexaco trend map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		

Signature: 	OIL CONSERVATION DIVISION Accepted for Record Only	
Printed Name: Robert Asher	Approved by District Supervisor: <u>03/06/12</u>	
Title: Senior Environmental Regulatory Agent	Approval Date:	Expiration Date:
E-mail Address: boba@yatespetroleum.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Friday, July 22, 2011 Phone: 575-748-4217	IRP- <u>3-12-2784</u>	

* Attach Additional Sheets If Necessary

Incident ID	
District RP	1RP-2784
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Incident ID	
District RP	1RP-2784
Facility ID	
Application ID	

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

Printed Name: James F. Kennedy Title: Environmental Specialist
Signature: James F Kennedy Date: 2/21/2022
email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	1RP-2284
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: James F. Kennedy Title: Environmental Specialist
Signature: James F Kennedy Date: 2/21/2022
email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

HOBBS OCD

NOV 03 2011

RECEIVED

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 TH Street	Telephone No. 575-748-1471	
Facility Name Flamenco Federal #1	API Number 30-025-31076	Facility Type SWD Battery
Surface Owner Federal	Mineral Owner Federal	Lease No. NM-84890


LOCATION OF RELEASE

Unit Letter L	Section 7	Township 22S	Range 32E	Feet from the 1650	North/South Line South	Feet from the 660	East/West Line West	County Lea
------------------	--------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	---------------

Latitude 32.40333 Longitude 103.72034

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 275 B/PW	Volume Recovered 260 B/PW
Source of Release Water line	Date and Hour of Occurrence 10/21/2011, AM	Date and Hour of Discovery 10/21/2011, AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 10/24/2011; PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Water line connection in tin horn failed, causing release. Vacuum truck called.		
Describe Area Affected and Cleanup Action Taken.* Initial release amount was miscalculated when reported on 10/24/2011, correct amount released/recovered per this C-141 report. An approximate area of 60 X 75'. Vacuum truck picked up remaining produced water. Impacted soils being excavated and taken to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (Chlorides in soils for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. Depth to Ground Water: >100' (approx. 280', Section 14, T22S-R32E, NMOSE and approx 200' per the ChevronTexaco trend map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Accepted for Record Only	
Title: Senior Environmental Regulatory Agent	Approved by District Supervisor: 3/30/12	
E-mail Address: boba@yatespetroleum.com	Approval Date:	Expiration Date:
Date: Wednesday, November 02, 2011 Phone: 575-748-4217	Conditions of Approval:	Attached <input type="checkbox"/>
	1RP- 3-12-2790	

* Attach Additional Sheets If Necessary

Incident ID	
District RP	1RP-2790
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Incident ID	
District RP	1RP-2790
Facility ID	
Application ID	

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

Printed Name: James F. Kennedy Title: Environmental Specialist
Signature: James F Kennedy Date: 2/21/2022
email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	1RP-2790
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: James F. Kennedy Title: Environmental Specialist
Signature: James F Kennedy Date: 2/21/2022
email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

Initial

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 TH Street	Telephone No. 575-748-1471	
Facility Name Flamenco Federal #1	API Number 30-025-31076	Facility Type SWD Battery
Surface Owner Federal	Mineral Owner Federal	Lease No. NM-84890

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	7	22S	32E	1650	South	660	West	Lea

Latitude 32.40333 Longitude 103.72034

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 200 B/PW	Volume Recovered 0 B/PW
Source of Release Water line	Date and Hour of Occurrence 6/12/2013, AM	Date and Hour of Discovery 6/12/2013, AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 6/20/2013; PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A.

Describe Cause of Problem and Remedial Action Taken.*
Water line connection at tin horn failed, causing release. Vacuum truck called.



Describe Area Affected and Cleanup Action Taken.*

An approximate area of 60 X 75'. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (Chlorides in soils for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. **Depth to Ground Water: >100' (approx. 280', Section 14, T22S-R32E, NMOSE and approx 200' per the ChevronTexaco trend map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based on scope of work completed per the 10/18/2013 Work Plan (this release area was impacted by the 8/4/2013 release), Yates Petroleum Corporation requests closure.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

RECEIVED

By Olivia Yu at 8:47 am, Sep 06, 2017

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Approved by 	
Title: NM Environmental Regulatory Supervisor	Approval Date: 9/6/2017	Expiration Date:
E-mail Address: boba@yatespetroleum.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: Friday, January 31, 2014 Phone: 575-748-4217		

* Attach Additional Sheets If Necessary

1RP-4800

nOY1724932244

pOY1724941406

Incident ID	
District RP	1RP-4800
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Incident ID	
District RP	1RP-4800
Facility ID	
Application ID	

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

Printed Name: James F. Kennedy Title: Environmental Specialist
Signature: James F Kennedy Date: 2/21/2022
email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	1RP-4800
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: James F. Kennedy Title: Environmental Specialist
Signature: James F Kennedy Date: 2/21/2022
email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

Initial

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 TH Street	Telephone No. 575-748-1471	
Facility Name Flamenco Federal #1	API Number 30-025-31076	Facility Type SWD Battery
Surface Owner Federal	Mineral Owner Federal	Lease No. NM-84890

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	7	22S	32E	1650	South	660	West	Lea

Latitude 32.40333 Longitude 103.72034

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 600 B/PW	Volume Recovered 0 B/PW
Source of Release Water line	Date and Hour of Occurrence 8/4/2013, AM	Date and Hour of Discovery 8/4/2013, AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 8/5/2013; PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Water line connection at tin horn failed, causing release. Vacuum truck called.



Describe Area Affected and Cleanup Action Taken.*

An approximate area of 60 X 75'. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (Chlorides in soils for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted. Depth to Ground Water: >100' (approx. 280', Section 14, T22S-R32E, NMOSE and approx 200' per the ChevronTexaco trend map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based on scope of work completed per the 10/18/2013 Work Plan, Yates Petroleum Corporation requests closure.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

RECEIVED

By Olivia Yu at 8:47 am, Sep 06, 2017

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Approved by: 	
Title: NM Environmental Regulatory Supervisor	Approval Date: 9/6/2017	Expiration Date:
E-mail Address: boba@yatespetroleum.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: Friday, January 31, 2014 Phone: 575-748-4217		

* Attach Additional Sheets If Necessary

1RP-4801

nOY1724941773

pOY1724942051

Incident ID	
District RP	1RP-4801
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Incident ID	
District RP	1RP-4801
Facility ID	
Application ID	

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

Printed Name: James F. Kennedy Title: Environmental Specialist
Signature: James F Kennedy Date: 2/21/2022
email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	1RP-4801
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: James F. Kennedy Title: Environmental Specialist
Signature: James F Kennedy Date: 2/21/2022
email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Attachment B

Site Characterization Documentation



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: MW-10

PROJECT NUMBER: 11220747

DATE COMPLETED: August 3, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, red/brown, dry	4.00					<120	4.7
	CALICHE						<120	2.8
							<120	1.4
							<120	1.8
10	SC-CLAYEY SAND, fine grained, brown, dry	10.00					<120	6.8
15	SANDSTONE, fine to medium grained, tan, dry	15.00					<120	75.1
20							<120	1.6
25	SILTY SANDSTONE, fine grained, brown, dry	25.00					<120	54.9
30							<120	5.0
35							<120	4.3
40							<120	78.4
45							<120	2.7
50							<120	5.4
55							<120	6.4
60							<120	8.1
65	SANDSTONE, medium grained, gray/tan, dry	65.00					<120	21.3
70	SILTY SANDSTONE, fine to medium grained, brown/red, dry	70.00					<120	7.2

Cement-Bentonite Grout

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



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: MW-10

PROJECT NUMBER: 11220747

DATE COMPLETED: August 3, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
80	SANDSTONE, caliche powder, medium grained, white, dry	80.00					<120	7.1
85	CH-CLAY, fat, brown, dry	85.00					<120	11.1
90	SANDSTONE, fine to medium grained, tan/brown, dry	90.00					<120	3.0
95							<120	0.4
100							<120	3.4
105	END OF BOREHOLE @ 105.00ft BGS	105.00					<120	4.1
110	Boring was left open for 72 hours and then a water probe was used to determine the presence or absence of groundwater. No groundwater was detected and the boring was plugged.						<120	2.8
115								
120								
125								
130								
135								
140								
145								

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



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: MW-11

PROJECT NUMBER: 11220747

DATE COMPLETED: August 5, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry						<120	6.4
							<120	0.8
	CALICHE	6.00					<120	1.1
							<120	2.3
10	SM-SILTY SAND, fine grained, brown, dry	10.00					<120	0.7
15							<120	2.0
20							<120	1.3
25	CL-SANDY CLAY, fine grained, brown, dry	25.00					<120	0.8
30	SANDSTONE, fine to medium grained, tan, dry	30.00					148	6.9
35	CH-CLAY, fat, brown, dry	35.00					<120	3.4
40							<120	2.1
45							<120	2.0
50							<120	1.7
55							<120	2.3
60							<120	1.3
65	SANDSTONE, fine grained, gray/white, dry	65.00					<120	2.3
70	CH-CLAY, fat, brown/red, dry	70.00					<120	1.6

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

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: MW-11

PROJECT NUMBER: 11220747

DATE COMPLETED: August 5, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
80	CLAYEY SANDSTONE, fine to medium grained, brown, dry	80.00					<120	22.9
85	SANDSTONE, medium grained, gray/white, dry	85.00					<120	38.8
90							<120	30.9
95							<120	20.3
100							<120	28.1
105	END OF BOREHOLE @ 105.00ft BGS	105.00					<120	87.1
110	Boring was left open for 72 hours and then a water probe was used to determine the presence or absence of groundwater. No groundwater was detected and the boring was plugged.						<120	78.1
115								
120								
125								
130								
135								
140								
145								

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

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

OSE POD Locations Map



1/25/2022, 11:43:35 AM

GIS WATERS PODs

● Active

● Pending

● Plugged

OSE District Boundary

Water Right Regulations

Closure Area

New Mexico State Trust Lands

Subsurface Estate

Both Estates

SiteBoundaries

1:18,056

00.170.350.7 mi





00.30.61.2 km

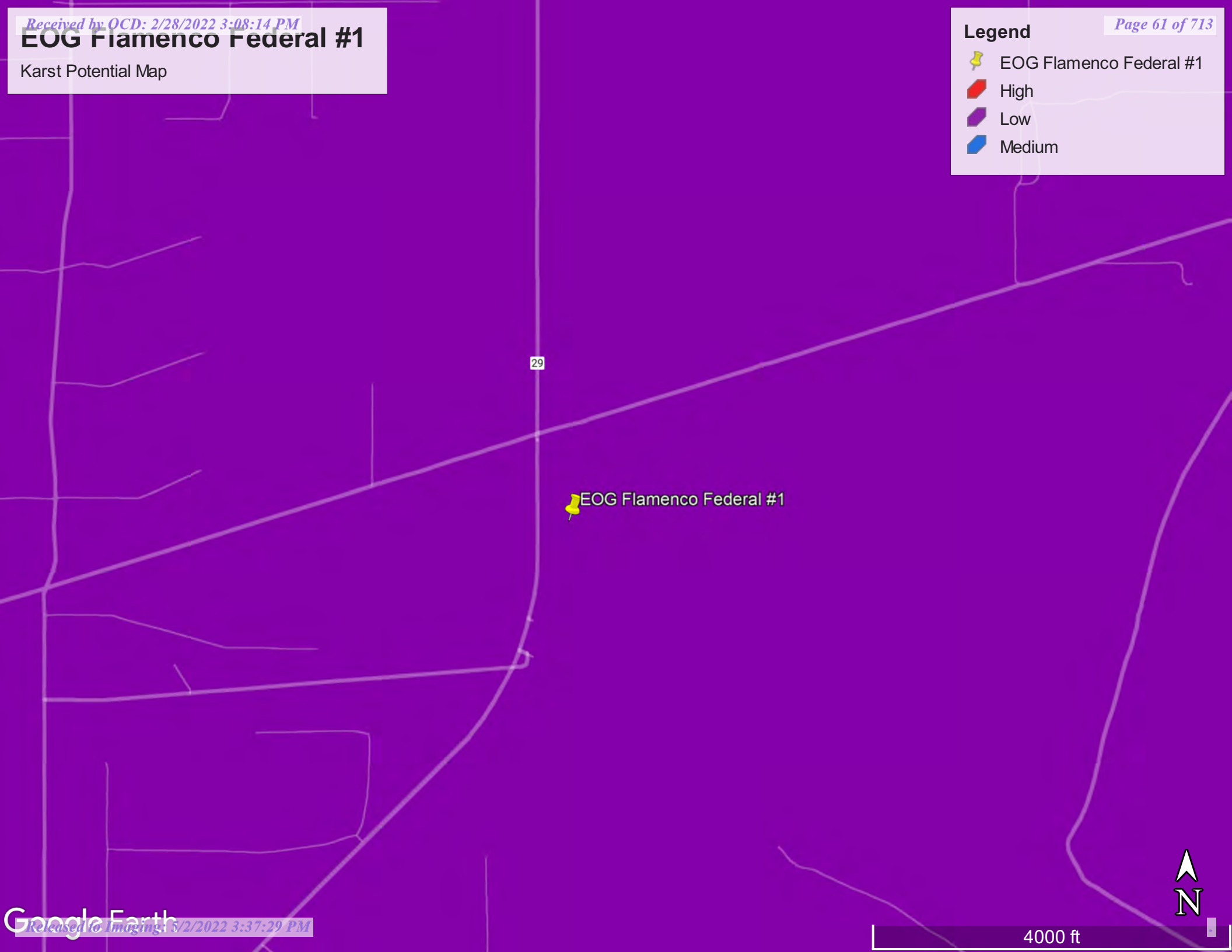
Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

EOG Flamenco Federal #1

Karst Potential Map

Legend


-  EOG Flamenco Federal #1
-  High
-  Low
-  Medium





EOG Flamenco Federal #1

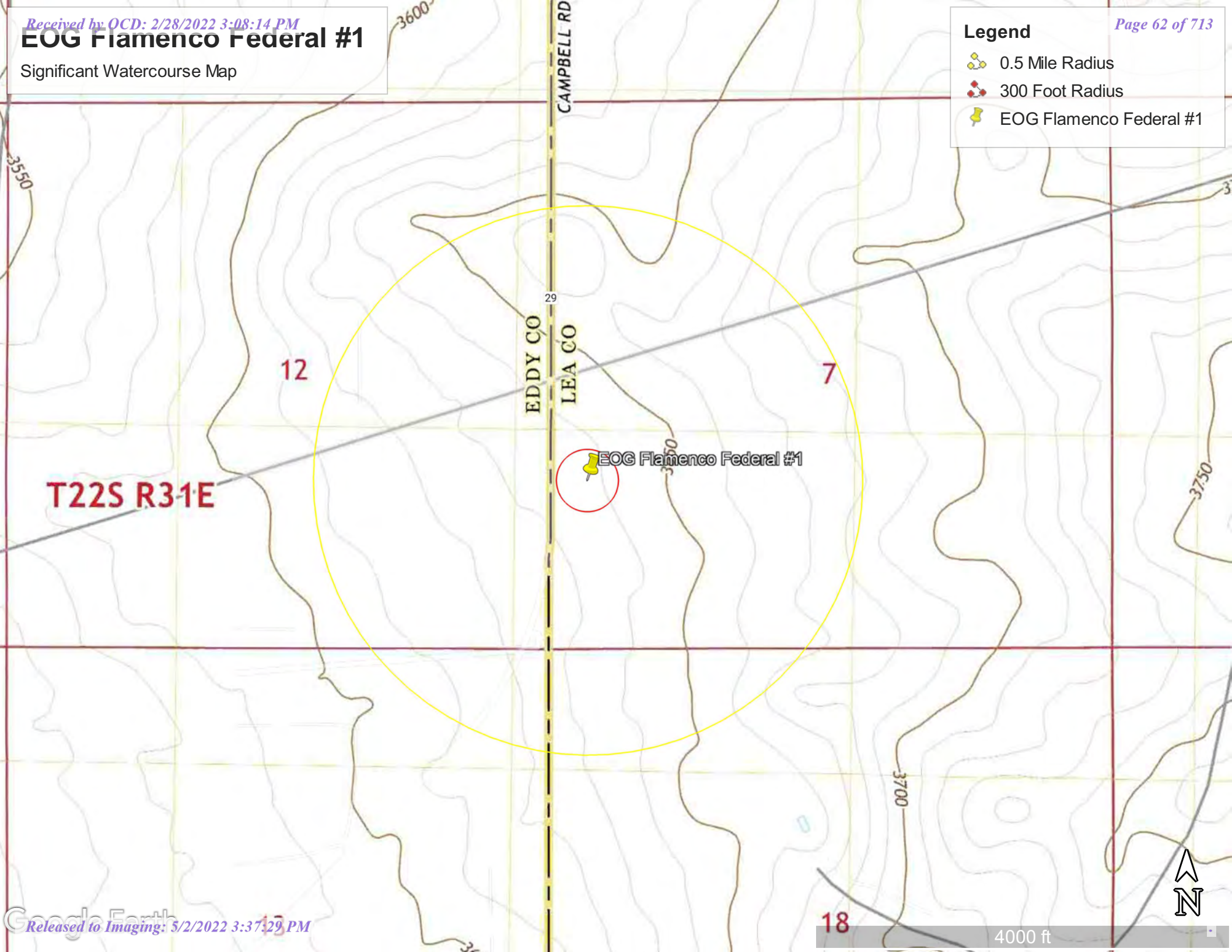
Significant Watercourse Map

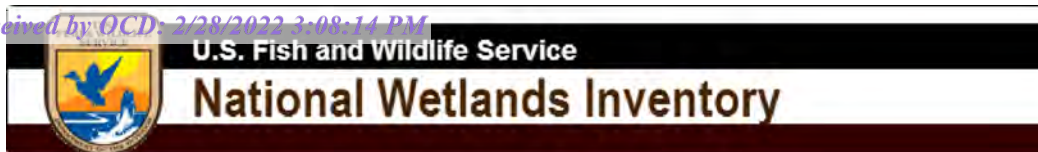
Legend

 0.5 Mile Radius

 300 Foot Radius

 EOG Flamenco Federal #1





EOG Flamenco Federal #1



January 25, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

National Flood Hazard Layer FIRMette



103°43'37"W 32°24'28"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		Profile Baseline
		Hydrographic Feature
		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 1/25/2022 at 2:09 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.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

103°43'W 32°23'57"N

Attachment C

GHD and Cascade Drilling Soil Boring Logs



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: MW-10

PROJECT NUMBER: 11220747

DATE COMPLETED: August 3, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, red/brown, dry	4.00					<120	4.7
	CALICHE						<120	2.8
							<120	1.4
							<120	1.8
10	SC-CLAYEY SAND, fine grained, brown, dry	10.00					<120	6.8
15	SANDSTONE, fine to medium grained, tan, dry	15.00					<120	75.1
20							<120	1.6
25	SILTY SANDSTONE, fine grained, brown, dry	25.00					<120	54.9
30							<120	5.0
35							<120	4.3
40							<120	78.4
45							<120	2.7
50							<120	5.4
55							<120	6.4
60							<120	8.1
65	SANDSTONE, medium grained, gray/tan, dry	65.00					<120	21.3
70	SILTY SANDSTONE, fine to medium grained, brown/red, dry	70.00					<120	7.2

Cement-Bentonite Grout

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



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: MW-10

PROJECT NUMBER: 11220747

DATE COMPLETED: August 3, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
80	SANDSTONE, caliche powder, medium grained, white, dry	80.00					<120	7.1
85	CH-CLAY, fat, brown, dry	85.00					<120	11.1
90	SANDSTONE, fine to medium grained, tan/brown, dry	90.00					<120	3.0
95							<120	0.4
100							<120	3.4
105	END OF BOREHOLE @ 105.00ft BGS	105.00					<120	4.1
110	Boring was left open for 72 hours and then a water probe was used to determine the presence or absence of groundwater. No groundwater was detected and the boring was plugged.						<120	2.8
115								
120								
125								
130								
135								
140								
145								

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



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: MW-11

PROJECT NUMBER: 11220747

DATE COMPLETED: August 5, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry						<120	6.4
							<120	0.8
	CALICHE	6.00					<120	1.1
							<120	2.3
10	SM-SILTY SAND, fine grained, brown, dry	10.00					<120	0.7
15							<120	2.0
20							<120	1.3
25	CL-SANDY CLAY, fine grained, brown, dry	25.00					<120	0.8
30	SANDSTONE, fine to medium grained, tan, dry	30.00					148	6.9
35	CH-CLAY, fat, brown, dry	35.00					<120	3.4
40							<120	2.1
45							<120	2.0
50							<120	1.7
55							<120	2.3
60							<120	1.3
65	SANDSTONE, fine grained, gray/white, dry	65.00					<120	2.3
70	CH-CLAY, fat, brown/red, dry	70.00					<120	1.6

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

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: MW-11

PROJECT NUMBER: 11220747

DATE COMPLETED: August 5, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
80	CLAYEY SANDSTONE, fine to medium grained, brown, dry	80.00					<120	22.9
85	SANDSTONE, medium grained, gray/white, dry	85.00					<120	38.8
90							<120	30.9
95							<120	20.3
100							<120	28.1
105	END OF BOREHOLE @ 105.00ft BGS	105.00					<120	87.1
110	Boring was left open for 72 hours and then a water probe was used to determine the presence or absence of groundwater. No groundwater was detected and the boring was plugged.						<120	78.1
115								
120								
125								
130								
135								
140								
145								

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

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-12

PROJECT NUMBER: 11220747

DATE COMPLETED: August 18, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

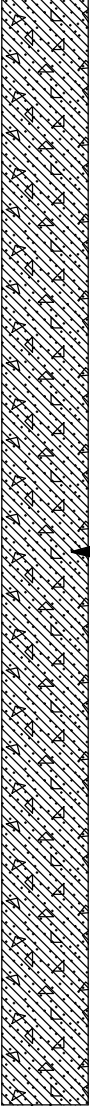
LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	2.00		2			<120	11.2
	CALICHE			4			>2604	0.4
	SM-SILTY SAND, fine grained, brown, dry	6.00					>2604	23.3
	CL-SANDY CLAY, fine grained, brown, dry	8.00					>2604	33.3
	SM-SILTY SAND, fine grained, brown, dry	10.00					2400	36.6
15							>2604	33.4
20				20'			>2604	32.1
25	SANDSTONE, fine to medium grained, tan, dry	25.00					>2604	27.6
30							1648	55.2
35	CH-CLAY, fat, brown, dry	35.00					542	79.0
40				40'			108	54.0
45	SANDSTONE, fine to medium grained, brown, dry	45.00		45 45'			284	23.1
50	SANDSTONE, fine grained, brown, dry	50.00					310	19.4
55				55'			130	14.3
60	END OF BOREHOLE @ 60.00ft BGS This boring was dry.	60.00		60'			160	16.1

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-13

PROJECT NUMBER: 11220747

DATE COMPLETED: July 25, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry			2				
				4			<108	1.8
	CALICHE	6.00					<108	38.7
		8.00					<108	29.8
10	SM-SILTY SAND, fine grained, brown, dry			10'			<108	154.2
							<108	16.8
15	- with fine gravel from 14.00 to 20.00ft BGS						<108	23.8
							<108	20.9
20				18'			<108	219.8
							<108	143
25	- with fine gravel from 25.00 to 30.00ft BGS						160	61.4
30	END OF BOREHOLE @ 30.00ft BGS	30.00		30'			<108	86.4
35	This boring was dry.							
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-14

PROJECT NUMBER: 11220747

DATE COMPLETED: August 6, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown/red, dry	2.00		2			<120	2.8
	CALICHE			4			1136	50.8
6.00	SM-SILTY SAND, fine grained, brown, dry						<120	2.7
10							<120	1.3
15							<120	19.2
20							1140	36.4
25	CH-CLAY, fat, brown, dry	20.00					1760	37.0
30				25'			>2572	19.5
35	SANDSTONE, fine to medium grained, white, dry	30.00		30'			136	34.3
35.00	END OF BOREHOLE @ 35.00ft BGS			35'			136	54.4
40	This boring was dry.							

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-15

PROJECT NUMBER: 11220747

DATE COMPLETED: August 6, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	2.00		2			<120	2.6
	CALICHE	4.00		4			420	2.6
	SM-SILTY SAND, fine grained, brown, dry	8.00		6			>2460	16.2
10	CH-CLAY, fat, brown, dry	10.00					>2460	11.1
	SM-SILTY SAND, fine grained, brown, dry	25.00					>2460	8.3
15							>2460	9.3
20							2112	10.0
25	SILTY SANDSTONE, fine to medium grained, tan, dry	30.00					2112	12.3
30	SILTY SANDSTONE, fine to medium grained, white, dry	40.00					1716	13.1
35				35'			508	11.9
40	CH-CLAY, fat, brown, dry	45.00		40'			<120	3.2
45	END OF BOREHOLE @ 45.00ft BGS			45'			<120	4.3
50	This boring was dry.							
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-16

PROJECT NUMBER: 11220747

DATE COMPLETED: August 6, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	2.00		2			<120	1.3
	CALICHE	4.00		4			164	2.0
	SM-SILTY SAND, fine grained, brown, dry						<120	1.3
10				10'			<120	1.0
15							<120	1.3
20	END OF BOREHOLE @ 20.00ft BGS	20.00		20'			<120	15.6
25	This boring was dry.							
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-17

PROJECT NUMBER: 11220747

DATE COMPLETED: July 26, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, red/brown, dry	5.00	Cement-Bentonite Grout	2			<108	1.8
				4			<108	0.8
10	SM-SILTY SAND, fine grained, brown, dry			10'			<108	13.8
15	END OF BOREHOLE @ 15.00ft BGS	15.00		15'			<108	6.1
20	This boring was dry.							
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-18

PROJECT NUMBER: 11220747

DATE COMPLETED: August 11, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry			2			<120	4.9
				4			<120	3.0
10							572	57.4
							852	22.9
							1772	23.6
15	SANDY CALICHE	15.00					>2604	5.2
20	SANDSTONE, fine to medium grained, brown, dry	20.00					>2604	12.6
25	SANDSTONE, medium grained, brown, dry	25.00					>2604	11.3
30				30'			>2604	12.6
35	CH-CLAY, fat, brown, dry	35.00					1772	14.1
40	SANDSTONE, fine to medium grained, tan, dry	40.00					>2604	13.0
45							1424	26.7
50	CH-CLAY, fat, brown, dry	50.00					792	24.8
55				55'			252	63.1
60				60'			188	25.7
65				65'			<120	8.5
70	END OF BOREHOLE @ 70.00ft BGS	70.00		70'			<120	11.3
	This boring was dry.							

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-19

PROJECT NUMBER: 11220747

DATE COMPLETED: August 11, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

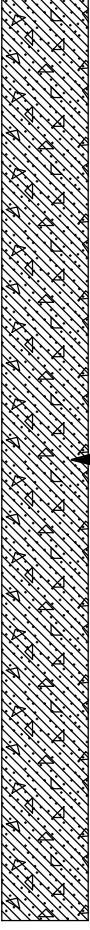
LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<120	5.3
	SANDY CALICHE			4			<120	1.6
		8.00					732	5.6
10	SM-SILTY SAND, fine grained, brown, dry						732	6.1
							732	3.9
15							1772	25.5
20	SANDSTONE, fine to medium grained, tan, dry	20.00		20'			2604	30.0
25	SANDSTONE, medium grained, tan/yellow, dry	25.00					852	28.0
30	CH-CLAY, fat, brown, dry	30.00					852	36.4
35							1772	41.7
40	SANDSTONE, medium grained, brown, dry	40.00					1068	5.1
45	SANDSTONE, fine to medium grained, tan, dry	45.00		45'			160	57.0
50	END OF BOREHOLE @ 50.00ft BGS	50.00		50'			<120	5.4
55	This boring was dry.							
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-20

PROJECT NUMBER: 11220747

DATE COMPLETED: July 27, 2021

CLIENT: EOG Resources

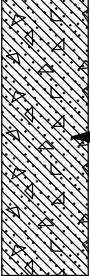
DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PI/D (ppm)
5	SM-SILTY SAND, fine grained, red/brown, dry			2			<120	0.5
				4			<120	0.2
10				10'			<120	6.9
15	END OF BOREHOLE @ 15.00ft BGS	15.00		15'			180	13.2
20	This boring was dry.							
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS 

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-21

PROJECT NUMBER: 11220747

DATE COMPLETED: July 27, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, red/brown, dry			2			<120	0.4
				4			352	0.4
10				10'			>2492	70.5
15	SANDSTONE, fine to medium grained, tan/brown	15.00					>2492	30.0
20	END OF BOREHOLE @ 20.00ft BGS	20.00		20'			1380	47.6
25	This boring was dry.							
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-21A

PROJECT NUMBER: 11220747

DATE COMPLETED: August 11, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-1\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<120	3.6
	CALICHE			4			<120	6.1
10							>2604	53.7
							>2604	39.9
15	SANDSTONE, fine to medium grained, tan, dry	10.00					>2604	36.2
				15'			2056	64.6
20							>2604	31.7
25	SANDSTONE, medium grained, tan/yellow, dry	20.00					>2604	16.7
30							1424	21.8
35	SANDSTONE, medium grained, brown, dry	30.00		35'			>2604	26.7
40							2400	30.3
45	CH-CLAY, fat, brown, dry	45.00					<120	5.6
50							676	36.2
55				55'			160	34.1
60	END OF BOREHOLE @ 60.00ft BGS	60.00		60'			<120	12.1
65	This boring was dry.							
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-21B

PROJECT NUMBER: 11220747

DATE COMPLETED: August 12, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<120	5.3
	CALICHE	8.00		4			<120	0.9
				6			920	31.2
10	SANDSTONE, fine to medium grained, tan, dry	15.00					356	28.5
							188	23.7
15	SANDSTONE, medium grained, brown, dry	20.00		15'			<120	9.6
20	END OF BOREHOLE @ 20.00ft BGS			20'			<120	10.8
25	This boring was dry.							
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-21C

PROJECT NUMBER: 11220747

DATE COMPLETED: August 12, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry			2			<120	5.8
				4			<120	4.7
				6			<120	19.3
	CALICHE	6.00					<120	15.6
	SANDY CALICHE	8.00					<120	14.7
10	SANDSTONE, fine to medium grained, tan, dry	10.00					<120	22.7
15				15'			<120	5.7
20	END OF BOREHOLE @ 20.00ft BGS	20.00		20'			<120	
25	This boring was dry.							
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-22

PROJECT NUMBER: 11220747

DATE COMPLETED: August 11, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00	 Cement-Bentonite Grout	2			120	4.7
	SANDY CALICHE			4			120	0.8
							356	11.2
							1648	13.1
10	SM-SILTY SAND, fine grained, brown, dry	10.00					>2604	23.0
15	SANDSTONE, fine to medium grained, gray/tan, dry	15.00		15'			>2604	5.7
20	SANDSTONE, fine to medium grained, brown, dry	20.00					>2604	6.3
25	SANDSTONE, fine to medium grained, tan/yellow, dry	25.00					2056	11.2
30	SANDSTONE, fine to medium grained, brown, dry	30.00		30'			1148	43.9
35							<120	9.5
40							572	4.0
45	SANDSTONE, fine to medium grained, tan, dry	45.00		45'			160	5.8
50	END OF BOREHOLE @ 50.00ft BGS	50.00		50'			<120	6.9
55	This boring was dry.							
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-23

PROJECT NUMBER: 11220747

DATE COMPLETED: July 27, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, red/brown, dry			2			<120	1.1
				4				
10	SANDSTONE, fine to medium grained, tan, dry	10.00		10'			<120	0.6
13	- refusal at 13.00ft BGS	13.00					<120	29.2
15	END OF BOREHOLE @ 13.00ft BGS							
20	This boring was dry.							
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-24

PROJECT NUMBER: 11220747

DATE COMPLETED: August 10, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry			2			<120	3.3
	CALICHE	4.00		4			<120	2.0
	SANDY CALICHE	6.00					1148	32.6
		8.00					1148	28.7
10	SM-SILTY SAND, fine to medium grained, brown, dry	10.00					1148	30.0
	SANDSTONE, medium grained, tan, dry							
15				15'			1772	52.9
20							356	52.0
25				25'			<120	36.5
30	END OF BOREHOLE @ 30.00ft BGS	30.00		30'			<120	61.1
35	This boring was dry.							
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-25

PROJECT NUMBER: 11220747

DATE COMPLETED: August 10, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<120	3.4
	CALICHE	6.00		4			<120	1.1
10	SM-SILTY SAND, fine grained, brown, dry						>2472	13.9
							>2472	16.8
15				15'			>2472	6.9
							>2472	5.3
20	SANDSTONE, fine to medium grained, brown, dry	20.00					1648	57.3
25							1772	40.6
30				30'			2008	62.2
35							356	40.5
40				40'			<120	89.6
45	END OF BOREHOLE @ 45.00ft BGS	45.00		45'			<120	49.6
50	This boring was dry.							
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-26

PROJECT NUMBER: 11220747

DATE COMPLETED: August 10, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry			2			<120	3.2
	CALICHE	4.00		4			<120	1.6
	SANDY CALICHE	6.00					>2472	47.0
10	SM-SILTY SAND, fine grained, brown, dry	8.00					>2472	50.6
							>2472	58.8
15	SANDSTONE, fine to medium grained, tan/gray, dry	15.00		15'			>2472	71.1
20	CH-CLAY, fat, brown, dry	20.00					456	14.1
25				25'			160	39.7
30	END OF BOREHOLE @ 30.00ft BGS	30.00		30'			176	42.1
35	This boring was dry.							
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-27

PROJECT NUMBER: 11220747

DATE COMPLETED: July 26, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, red/brown, dry			2			<120	1.2
				4			<120	0.8
10				10'			1136	5.8
15	CALICHE	15.00		15'			<120	11.8
20	END OF BOREHOLE @ 20.00ft BGS	20.00					140	19.4
25	This boring was dry.							
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-27A

PROJECT NUMBER: 11220747

DATE COMPLETED: August 12, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

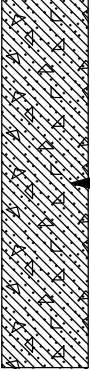
LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00	 Cement-Bentonite Grout	2			<120	6.2
	CALICHE			4			<120	5.9
		8.00					<120	15.1
10	SM-SILTY SAND, fine grained, brown, dry			10'			<120	9.8
15				15'			<120	17.3
20	END OF BOREHOLE @ 20.00ft BGS	20.00		20'			188	17.1
25	This boring was dry.						160	21.2
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS 



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-28

PROJECT NUMBER: 11220747

DATE COMPLETED: August 10, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<120	3.8
	CALICHE	8.00		4			<120	1.7
							>2472	2.8
10	SANDY CALICHE	10.00					>2472	3.5
	SM-SILTY SAND, fine grained, brown, dry	15.00					>2472	3.1
15	SANDSTONE, fine to medium grained, tan/gray, dry	20.00		20'			2472	5.3
20							>2472	10.2
25				25'			1328	91.7
30	SANDSTONE, medium grained, brown, dry	30.00					612	44.3
35							256	5.0
40				40'			216	61.4
45	END OF BOREHOLE @ 45.00ft BGS	45.00		45'			196	79.3
50	This boring was dry.							
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-29

PROJECT NUMBER: 11220747

DATE COMPLETED: August 10, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry			2			<120	3.2
	CALICHE	4.00		4			<120	2.9
							620	28.3
10	SANDY CALICHE	8.00					572	30.9
	SANDSTONE, fine to medium grained, brown, dry	10.00		10'			732	39.4
15				15'			<120	39.2
20							<120	14.6
25	END OF BOREHOLE @ 25.00ft BGS	25.00		25'			188	69.3
30	This boring was dry.							
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-30

PROJECT NUMBER: 11220747

DATE COMPLETED: August 9, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

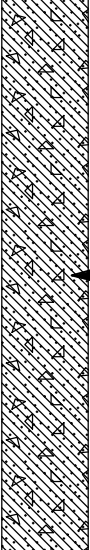
LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<120	3.5
	CALICHE			4			<120	1.7
							2296	13.8
10	SM-SILTY SAND, fine grained, brown, dry	10.00		8			2296	27.0
							2296	25.3
15								
20	SANDSTONE, fine to medium grained, tan, dry	20.00					608	12.2
							728	14.1
25	CH-CLAY, fat, brown, dry	25.00		25			212	55.4
30	END OF BOREHOLE @ 30.00ft BGS	30.00		30			144	23.0
35	This boring was dry.							
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS 



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-31

PROJECT NUMBER: 11220747

DATE COMPLETED: August 9, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry			2			<120	7.1
				4			<120	1.3
10							>2472	14.6
							>2472	12.9
							>2472	36.8
15	SANDSTONE, medium grained, gray, dry	15.00		15'			>2472	21.3
20							1240	17.0
25	CH-CLAY, fat, brown, dry	25.00		25'			168	49.8
30	END OF BOREHOLE @ 30.00ft BGS	30.00		30'			168	14.5
35	This boring was dry.							
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-32

PROJECT NUMBER: 11220747

DATE COMPLETED: July 27, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, red/brown, dry			2			<120	1.6
				4			<120	0.8
10				10'			180	7.8
15	CALICHE	15.00		15'			540	8.1
20	END OF BOREHOLE @ 20.00ft BGS	20.00					415	63.8
25	This boring was dry.							
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-33

PROJECT NUMBER: 11220747

DATE COMPLETED: August 8, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic


LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<108	4.3
	CALICHE	6.00		4			<108	8.5
	SM-SILTY SAND, fine grained, brown, dry						<108	14.7
10							1648	24.3
							1908	22.0
15							1532	13.3
20	SANDSTONE, fine to medium grained, gray/tan, dry	20.00		20'			1908	15.5
25							1232	6.4
30	CH-CLAY, fat, brown, dry	30.00					1648	10.2
35	SANDSTONE, fine to medium grained, brown, dry	35.00					572	5.7
40							1740	13.0
45	CH-CLAY, fat, brown, dry	45.00					1864	15.2
50	SANDSTONE, fine to medium grained, brown, dry	50.00					256	40.7
55				55'			560	78.5
60	CH-CLAY, brown, dry	60.00		60'			144	67.0
65	END OF BOREHOLE @ 65.00ft BGS	65.00		65'			292	20.0
70	This boring was dry.							

Cement-Bentonite Grout

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-34

PROJECT NUMBER: 11220747

DATE COMPLETED: August 8, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<120	2.6
	CALICHE			4			<120	5.1
				6			572	28.2
10	SM-SILTY SAND, fine grained, brown, dry	8.00					284	26.9
15				15			356	33.5
20							188	29.0
25	END OF BOREHOLE @ 25.00ft BGS	25.00		25			188	18.4
30	This boring was dry.						<108	10.0
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-35

PROJECT NUMBER: 11220747

DATE COMPLETED: August 17, 2021

CLIENT: EOG Resources

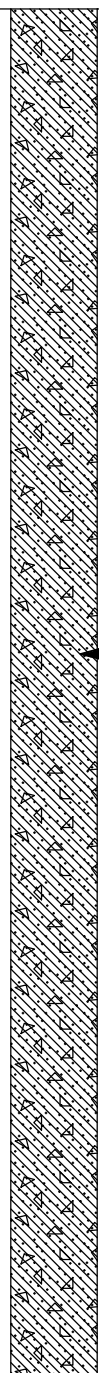
DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<120	1.4
	CALICHE	6.00		4			156	0.9
	SM-SILTY SAND, fine grained, brown, dry						1792	3.8
10							1792	4.5
							1328	3.1
15							1648	23.8
20							1648	28.5
25	SANDSTONE, SANDSTONE, medium grained, tan, dry	25.00		25'			1648	31.0
30	CH-CLAY, fat, brown, dry	30.00					2048	18.6
35	SANDSTONE, fine to medium grained, brown, dry	35.00					2048	23.4
40	SANDSTONE, medium grained, tan/gray, dry	40.00		40'			320	45.0
45	SANDSTONE, fine to medium grained, tan, dry	45.00		45'			<120	26.4
50	SANDSTONE, fine to medium grained, brown, dry	50.00					188	2.8
55				55'			1068	5.8
60	CH-CLAY, fat, brown, dry	60.00					<120	76.2
65							160	38.6
70	SANDSTONE, medium grained, tan, dry	70.00					320	16.4

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

CHEMICAL ANALYSIS



File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-35

PROJECT NUMBER: 11220747

DATE COMPLETED: August 17, 2021

CLIENT: EOG Resources


DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
				75'			<120	19.6
80	SANDSTONE, fine to medium grained, brown, dry	75.00						
	END OF BOREHOLE @ 80.00ft BGS	80.00		80'			<120	4.9
	This boring was dry.							
85								
90								
95								
100								
105								
110								
115								
120								
125								
130								
135								
140								
145								

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

CHEMICAL ANALYSIS 

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-36

PROJECT NUMBER: 11220747

DATE COMPLETED: August 8, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<108	2.1
	CALICHE			4			<108	3.4
							2056	13.3
10	SM-SILTY SAND, fine grained, brown, dry	8.00					1648	10.4
							1232	11.1
15				15'			2400	19.3
20							1648	13.0
25	SANDSTONE, fine to medium grained, tan, dry	25.00					1648	29.3
30	CH-CLAY, fat, brown, dry	30.00					572	5.4
35	SANDSTONE, fine to medium grained, tan, dry	35.00					848	95.4
40							1148	142
45	SANDSTONE, fine to medium grained, brown, dry	45.00					1068	38.6
50	CH-CLAY, fat, brown, dry	50.00		50'			>2604	208.6
55	SANDSTONE, fine grained, gray, dry	55.00					480	85.9
60	CH-CLAY, fat, brown, dry	60.00		60'			<120	20.2
65				65'			320	49.8
70	MUDSTONE, very fine grained, brown/red, dry	70.00					420	3.7

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-36

PROJECT NUMBER: 11220747

DATE COMPLETED: August 8, 2021

CLIENT: EOG Resources


DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
	SANDSTONE, medium grained, tan, dry	75.00		75			<120	11.4
80	END OF BOREHOLE @ 80.00ft BGS	80.00		80			<120	5.4
85	This boring was dry.							
90								
95								
100								
105								
110								
115								
120								
125								
130								
135								
140								
145								

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

CHEMICAL ANALYSIS 

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-37

PROJECT NUMBER: 11220747

DATE COMPLETED: August 8, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic


LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<120	1.2
	CALICHE			4			572	2.1
							1232	7.3
							1648	4.5
10	SM-SILTY SAND, fine grained, brown, dry	10.00					1908	4.5
15	SP-SILTY CALICHE SAND, medium grained, tan, dry	15.00					852	5.2
20	SM-SILTY SAND, fine grained, brown, dry	20.00					920	3.6
25							436	3.7
30	CH-CLAY, fat, brown, dry	30.00		30'			1908	53.0
35	SANDSTONE, fine to medium grained, tan, dry	35.00					1324	68.0
40							1908	67.0
45	CH-CLAY, fat, brown, dry	45.00		45'			732	86.7
50							1772	37.1
55	CL-SANDY CLAY, fine grained, gray, dry	55.00					1068	17.1
60	CH-CLAY, fat, brown, dry	60.00		60'			108	13.1
65	END OF BOREHOLE @ 65.00ft BGS	65.00		65'			<108	19.3
70	This boring was dry.							

Cement-Bentonite Grout

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-38

PROJECT NUMBER: 11220747

DATE COMPLETED: August 7, 2021

CLIENT: EOG Resources



DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<120	0.3
	CALICHE	6.00		4			>1604	1.7
	SM-SILTY SAND, fine grained, brown, dry						>1604	12.5
10							>1604	9.7
							1232	11.0
15	CL-SANDY CLAY, fine grained, brown, dry	15.00					920	38.1
20	SM-SILTY SAND, fine grained, brown, dry	20.00		20'			2052	17.4
25							1424	33.0
30	SANDSTONE, fine to medium grained, tan to white, dry	30.00					856	19.7
35							856	67.3
40	SANDSTONE, medium grained, brown, dry	40.00		40'			676	105.3
45							1224	34.7
50	CH-CLAY, fat, brown, dry	50.00					1760	5.0
55	CLAYEY SANDSTONE, fine grained, brown, dry	55.00					1224	14.5
60				60'			252	19.3
65	END OF BOREHOLE @ 65.00ft BGS	65.00		65'			188	10.5
70	This boring was dry.							

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

CHEMICAL ANALYSIS





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-39

PROJECT NUMBER: 11220747

DATE COMPLETED: July 26, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

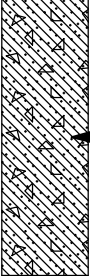
LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, red/brown, dry			2			<120	0.8
				4			<120	0.5
10				10'			<120	7.3
15	END OF BOREHOLE @ 15.00ft BGS	15.00		15'			<120	20.1
20	This boring was dry.							
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS 



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-40

PROJECT NUMBER: 11220747

DATE COMPLETED: July 26, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

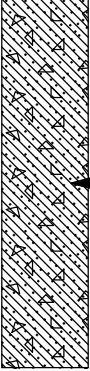
LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, red/brown, dry	4.00		2			<120	0.6
	SANDY CALICHE, fine grained, tan, dry			4			<120	0.5
10				10'			<120	5.1
15	SANDSTONE, fine to medium grained, gray	15.00		15'			1600	12.6
20	END OF BOREHOLE @ 20.00ft BGS	20.00					1604	5.6
25	This boring was dry.							
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-40A

PROJECT NUMBER: 11220747

DATE COMPLETED: August 12, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00		2			<120	6.1
	CALICHE			4			<120	2.8
		8.00					<120	5.0
10	SM-SILTY SAND, fine grained, brown, dry			10'			<120	6.1
15							<120	7.1
20	SANDSTONE, fine to medium grained, tan, dry	20.00		20'			187	6.3
25	END OF BOREHOLE @ 25.00ft BGS	25.00		25'			108	2.1
30	This boring was dry.							
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-41

PROJECT NUMBER: 11220747

DATE COMPLETED: July 27, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

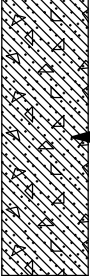
LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, red/brown, dry			2			<120	0.8
				4			<120	0.5
10				10'			<120	27.6
15	END OF BOREHOLE @ 15.00ft BGS	15.00		15'			<120	43.0
20	This boring was dry.							
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS 



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-42

PROJECT NUMBER: 11220747

DATE COMPLETED: July 27, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, red/brown, dry	4.00		2			<120	0.8
	CALICHE			4			<120	0.6
10	SANDSTONE, fine to medium grained, tan brown, dry	10.00		10'			<120	34.2
15	END OF BOREHOLE @ 15.00ft BGS	15.00		15'			<120	18.9
20	This boring was dry.							
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-43

PROJECT NUMBER: 11220747

DATE COMPLETED: August 18, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry			2			>2604	3.2
				4			>2604	3.0
							>2604	11.0
							>2604	17.4
							>2604	32.6
15	CH-CLAY, fat, brown, dry	15.00					>2604	32.0
20	SM-SILTY SAND, fine grained, brown, dry	20.00					>2604	27.7
25	SANDSTONE, fine to medium grained, white, dry	25.00		25'			1648	38.3
30							792	37.2
35	CH-CLAY, fat, brown, dry	35.00		35'			2406	7.2
40				40'			160	13.3
45	SANDSTONE, medium grained, tan/yellow, dry	45.00		45'			160	38.3
50	CLAYEY SANDSTONE, brown, dry	50.00		50'			138	21.5
55	END OF BOREHOLE @ 55.00ft BGS	55.00		55'			<120	10.3
60	This boring was dry.							
65								
70								

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

CHEMICAL ANALYSIS



File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Flamenco Federal #1

HOLE DESIGNATION: SB-44

PROJECT NUMBER: 11220747

DATE COMPLETED: August 6, 2021

CLIENT: EOG Resources

DRILLING METHOD: Sonic

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Cascade

DRILLER: Cole

File: I:\LOG DATABASE\8-CHAR\11-1122-11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENV\RO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
5	SM-SILTY SAND, fine grained, brown, dry	4.00	Cement-Bentonite Grout	2			<120	2.1
	SANDY CALICHE, fine grained	8.00		4			<120	0.9
							1676	10.2
10	SM-SILTY SAND, fine grained, brown, dry	15.00		8			2176	7.8
							1472	4.5
15	CH-CLAY, brown, dry	25.00					436	14.1
20							735	11.5
25	SANDSTONE, fine to medium grained, gray/tan, dry	30.00		25			<120	14.5
30	END OF BOREHOLE @ 30.00ft BGS			30			<120	9.5
35	This boring was dry.							
40								
45								
50								
55								
60								
65								
70								

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

CHEMICAL ANALYSIS



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 12		WELL TAG ID NO. PMW-10		OSE FILE NO(S) C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 24	15.17	N		
		LONGITUDE	-103	43	11.00	W		
* 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 Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/3/21	DRILLING ENDED 8/3/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY Roto Sonic							
	DEPTH (feet bgl)		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)
	FROM	TO						
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	105	6	Cement with 5% Bentonite	23	Trimie Pumped		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Fine Silty Sand Red/Brown	Y ✓ N	
	6	10	4	Caliche	Y ✓ N	
	10	15	5	Fine Clayey sand brown	Y ✓ N	
	15	25	10	Fine sandstone brown	Y ✓ N	
	25	65	40	Fine silty sandstone Brown	Y ✓ N	
	65	70	5	Medium Sandstone Gray	Y ✓ N	
	70	85	15	Fine silty sandstone Brown	Y ✓ N	
	85	90	5	Fine to Medium Sandstone	Y ✓ N	
	90	95	5	Fine - Very fine Fat Clay Brown	Y N	
	95	105	10	Fine to medium sandstone	Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Jason Camp					
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 SIGNATURE OF DRILLER / PRINT SIGNED NAME				11/19/21 DATE	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: PMW-10

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/3/2021 Date well plugging concluded: 8/3/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 15.17 sec
Longitude: -103 deg, 43 min, 11.00 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 13		WELL TAG ID NO. PMW-11		OSE FILE NO(S). C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 08.61	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE -103	43	23.28	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 8/5/21	DRILLING ENDED 8/5/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	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)
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	
	0 105		6	Cement with 5% Bentonite	23	Trimie Pumped	


FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Fine Silty Sand Red/Brown	Y ✓ N	
	6	10	4	Caliche	Y ✓ N	
	10	15	5	Fine Clayey sand brown	Y ✓ N	
	15	25	10	Fine sandstone brown	Y ✓ N	
	25	60	35	Fine silty sandstone Brown	Y ✓ N	
	60	70	10	Fat Clay Brown	Y ✓ N	
	70	85	15	Fine silty sandstone Brown	Y ✓ N	
	85	105	20	Fine to Medium Sandstone	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST, RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Jason Camp	

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	 Shawn Cain	11/19/21
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE

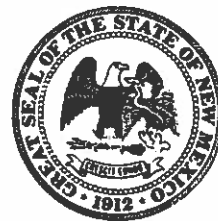
FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: PMW-11

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 8/5/2021 Date well plugging concluded: 8/5/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 8.61 sec
Longitude: -103 deg, 43 min, 23.28 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:


Signature of Well Driller

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 14		WELL TAG ID NO. SB-12		OSE FILE NO(S). C-4144	
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146	
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas
					ZIP 79706	
	WELL LOCATION (FROM GPS)		DEGREES 32	MINUTES 24	SECONDS 09.24	* ACCURACY REQUIRED: ONE TENTH OF A SECOND
		LATITUDE			N	* DATUM REQUIRED: WGS 84
		LONGITUDE	-103	43	21.72	W
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180						


2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain		NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/7/21	DRILLING ENDED 8/7/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 60	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	DEPTH (feet bgl)		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)
	FROM	TO					

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	60	6	Cement with 5% Bentonite	14	Trimie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	2	2	Fine Silty Sand Red/Brown	Y ✓ N	
	2	6	4	Caliche	Y ✓ N	
	6	8	2	Fine silty sand brown	Y ✓ N	
	8	10	2	Fine Sandy Clay Brown	Y ✓ N	
	10	30	20	Fine silty sand Brown	Y ✓ N	
	30	40	10	Fine to medium sandstone Brown	Y ✓ N	
	40	50	10	Very fat clay Brown	Y ✓ N	
	50	60	10	Fine to Medium Sandstone	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Jason Camp					
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 SIGNATURE OF DRILLER / PRINT SIGNED NAME				11/19/21 DATE	

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-12

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/7/2021 Date well plugging concluded: 8/7/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 9.24 sec
Longitude: -103 deg, 43 min, 21.72 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 60 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

Signature of Well Driller

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 16		WELL TAG ID NO. SB-14		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 08.65 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	21.85 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/6/21	DRILLING ENDED 8/6/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 35	DEPTH WATER FIRST ENCOUNTERED (FT) NA			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) NA			
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY:				Roto Sonic			
	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)
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		
	0	35	6	Cement with 5% Bentonite	7.5	Trimie Pumped		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.		POD NO.	TRN NO.
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-14

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 8/6/2021 Date well plugging concluded: 8/6/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 8.65 sec
Longitude: -103 deg, 43 min, 21.85 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 35 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 17		WELL TAG ID NO. SB-15		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 08.09 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	21.79 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/6/21	DRILLING ENDED 8/6/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 45	DEPTH WATER FIRST ENCOUNTERED (FT) NA			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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		
	0	45	6	Cement with 5% Bentonite	10	Trimie Pumped		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	2	2	Fine Silty Sand Red/Brown	Y ✓ N	
	2	4	2	Caliche	Y ✓ N	
	4	10	6	Fine silty sand brown	Y ✓ N	
	10	15	5	Fat Clay Brown	Y ✓ N	
	15	30	15	Fine silty sand Brown	Y ✓ N	
	30	42	12	Medium silty sandstone Tan	Y ✓ N	
	42	45	3	Fat clay Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman						
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 Shawn Cain				11/19/21	
	SIGNATURE OF DRILLER / PRINT SIGNED NAME				DATE	

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-15

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/6/2021 Date well plugging concluded: 8/6/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 8.09 sec
Longitude: -103 deg, 43 min, 21.79 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 45 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

SLC
Signature of Well Driller

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 18		WELL TAG ID NO. SB-16		OSE FILE NO(S) C-4144	
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146	
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas
					ZIP 79706	
	WELL LOCATION (FROM GPS)	LATITUDE	DEGREES 32	MINUTES 24	SECONDS 08.03	N
	LONGITUDE	-103	43	20.99	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180						

2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/6/21	DRILLING ENDED 8/6/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 20	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	DEPTH (feet bgl)		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)
	FROM	TO						

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	20	6	Cement with 5% Bentonite	5	Trimie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.		POD NO.	TRN NO.
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-16
 Well owner: EOG Resources Phone No.: 432-848-9146
 Mailing address: 5509 Champions Drive
 City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 8/6/2021 Date well plugging concluded: 8/6/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 8.03 sec
 Longitude: -103 deg, 43 min, 20.99 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl),
 by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21

Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 19		WELL TAG ID NO. SB-17		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 08.04 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	20.64 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 7/26/21	DRILLING ENDED 7/26/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 15	DEPTH WATER FIRST ENCOUNTERED (FT) NA			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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		
	0	15	6	Cement with 5% Bentonite	4	Trimie Pumped		

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR OSE INTERNAL USE



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-17

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s) rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 7/26/2021 Date well plugging concluded: 7/26/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 8.04 sec
Longitude: -103 deg, 43 min, 20.64 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 15 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

Sh C.

11/20/21

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 20		WELL TAG ID NO. SB-18		OSE FILE NO(S) C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 13.89 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	21.20 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/11/21	DRILLING ENDED 8/11/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 70	DEPTH WATER FIRST ENCOUNTERED (FT) NA			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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		
	0	70	6	Cement with 5% Bentonite	15	Trimie Pumped		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR OSE INTERNAL USE



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-18

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 7/26/2021 Date well plugging concluded: 7/26/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 13.89 sec
Longitude: -103 deg, 43 min, 21.20 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 70 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21
Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 21		WELL TAG ID NO. SB-19		OSE FILE NO(S). C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 13.69	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE -103	43	20.43	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 8/11/21	DRILLING ENDED 8/11/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 50	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	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)
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	
	0 50		6	Cement with 5% Bentonite	11	Trimie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Released to Imaging: 5/2/2022 3:37:29 PM

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.		POD NO.	TRN NO.
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-19

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664

Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/11/2021

Date well plugging concluded: 8/11/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 13.69 sec

Longitude: -103 deg, 43 min, 20.43 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 50 ft below ground level (bgl),
by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO) POD 22		WELL TAG ID NO. SB-20		OSE FILE NO(S) C-4144	
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146	
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas
					ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 13.25	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND
	LONGITUDE -103	43	21.14	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180						

2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 7/27/21	DRILLING ENDED 7/27/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 15	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	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)

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
	0	15	6	Cement with 5% Bentonite	4	Trimie Pumped

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 04/30/19)	
FILE NO.		POD NO.		TRN NO.	
LOCATION				WELL TAG ID NO.	
				PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-20

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 7/27/2021 Date well plugging concluded: 7/27/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 13.25 sec
Longitude: -103 deg, 43 min, 21.14 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 15 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 23		WELL TAG ID NO. SB-21		OSE FILE NO(S). C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	
					ZIP 79706		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 14.08	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE -103	43	20.80	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 7/27/21	DRILLING ENDED 7/27/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 20	DEPTH WATER FIRST ENCOUNTERED (FT) NA	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	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)
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	
	0	20	6	Cement with 5% Bentonite	4.5	Trimie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-21

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 7/27/2021 Date well plugging concluded: 7/27/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 14.08 sec
Longitude: -103 deg, 43 min, 20.80 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21
Date


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 23			WELL TAG ID NO. SB-21A			OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources						PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive						CITY Midland		STATE Texas	ZIP 79706
	WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 24	SECONDS 14.35	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103		43	20.80	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180										
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain				NAME OF WELL DRILLING COMPANY Cascade Drilling			
	DRILLING STARTED 8/11/21		DRILLING ENDED 8/11/21		DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 60		DEPTH WATER FIRST ENCOUNTERED (FT) NA	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) NA			
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:									
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic									
	DEPTH (feet bgl)		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)		
	FROM	TO								
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT				
	FROM	TO								
	0	60	6	Cement with 5% Bentonite	13	Trimie Pumped				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.		POD NO.	TRN NO.
LOCATION			WELL TAG ID NO.
			PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Fine Silty Sand Brown	Y ✓ N	
	4	10	6	Caliche	Y ✓ N	
	10	45	35	Medium to fine Sandstone	Y ✓ N	
	45	60	15	Fat Clay Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.					
	MISCELLANEOUS INFORMATION: Step out boring					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman						
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 Shawn Cain				11/20/21	
SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE		

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-21A

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/11/2021 Date well plugging concluded: 8/11/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 14.35 sec
Longitude: -103 deg, 43 min, 20.80 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 60 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21
Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 23		WELL TAG ID NO. SB-21B		OSE FILE NO(S). C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 14.90 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -103	43	20.47 W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 8/12/21	DRILLING ENDED 8/12/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 20	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	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)
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	
	0 20		6	Cement with 5% Bentonite	4.5	Trimie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-21B

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 8/12/2021 Date well plugging concluded: 8/12/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 14.90 sec
Longitude: -103 deg, 43 min, 20.47 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 24		WELL TAG ID NO. SB-22		OSE FILE NO(S). C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706
	WELL LOCATION (FROM GPS)	LATITUDE	DEGREES 32	MINUTES 24	SECONDS 13.57	N	
		LONGITUDE	-103	43	19.89	W	
* 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 Approximately 10.5 south of US Highway 62/180							

2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/11/21	DRILLING ENDED 8/11/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 50	DEPTH WATER FIRST ENCOUNTERED (FT) NA			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) NA			
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY:				Roto Sonic			
	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)

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
	0	50	6	Cement with 5% Bentonite	11	Trimie Pumped

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Released to Imaging: 5/2/2022 3:37:29 PM

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB- 22

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/11/2021 Date well plugging concluded: 8/11/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 13.57 sec
Longitude: -103 deg, 43 min, 19.89 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 50 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

SHC

11/20/21

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 25		WELL TAG ID NO. SB-23		OSE FILE NO(S) C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	
					ZIP 79706		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 15.26	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE -103	43	18.14	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 7/27/21	DRILLING ENDED 7/27/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 13	DEPTH WATER FIRST ENCOUNTERED (FT) NA	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	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)
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	
	0 13		6	Cement with 5% Bentonite	3	Trimie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)		ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO			Y	N	
4. HYDROGEOLOGIC LOG OF WELL	0	10	10	Fine Silty Sand Brown	Y	✓ N	
	10	13	3	Medium sandstone	Y	✓ N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					0.00		
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.					
	MISCELLANEOUS INFORMATION:						
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman						
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.						
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div style="text-align: center;"> Shawn Cain _____ DATE </div> <div style="text-align: center;"> 11/20/21 _____ </div> </div>							

FOR USE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 04/30/2019)		
FILE NO.	POD NO.	TRN NO.			
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2		



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-23

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas


Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 7/27/2021 Date well plugging concluded: 7/27/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 15.26 sec
Longitude: -103 deg, 43 min, 18.14 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 13 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:


Signature of Well Driller

Version: September 8, 2009
Page 2 of 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 26		WELL TAG ID NO. SB-24		OSE FILE NO(S) C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	
					ZIP 79706		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 14.62	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE -103	43	18.21	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 7/27/21	DRILLING ENDED 7/27/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 30	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	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)
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	
	0 30		6	Cement with 5% Bentonite	7	Trimie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-24

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 7/27/2021 Date well plugging concluded: 7/27/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 14.62 sec
Longitude: -103 deg, 43 min, 18.21 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 30 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

Sh C.

11/20/21

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 27		WELL TAG ID NO. SB-25		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 14.17 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	18.40 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/10/21	DRILLING ENDED 8/10/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 45	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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	
	0	45	6	Cement with 5% Bentonite		10	Tremie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2	



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-25
 Well owner: EOG Resources Phone No.: 432-848-9146
 Mailing address: 5509 Champions Drive
 City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 8/10/2021 Date well plugging concluded: 8/10/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 14.17 sec
 Longitude: -103 deg, 43 min, 18.40 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 45 ft below ground level (bgl),
 by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 28		WELL TAG ID NO. SB-26		OSE FILE NO(S). C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	
					ZIP 79706		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 13.51	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LONGITUDE -103	43	18.62	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 8/10/21	DRILLING ENDED 8/10/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 30	DEPTH WATER FIRST ENCOUNTERED (FT) NA	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	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)
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	
	0 30		6	Cement with 5% Bentonite	6.6	Tremie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)		ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO					
	0	6	6	Fine Silty Sand Brown	Y	✓ N	
	6	10	4	Caliche	Y	✓ N	
	10	20	10	Fine silty sand Brown	Y	✓ N	
	20	25	5	Medium Sandstone	Y	✓ N	
	25	30	5	Fat Clay Brown	Y	✓ N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
	5. TEST, RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
MISCELLANEOUS INFORMATION:							
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman							
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.						
	 Shawn Cain				11/20/21		
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE		

FOR USE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 04/30/2019)		
FILE NO.	POD NO.		TRN NO.		
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2		



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-26

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 8/10/2021 Date well plugging concluded: 8/10/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 13.51 sec
Longitude: -103 deg, 43 min, 18.62 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 30 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21
Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 29		WELL TAG ID NO. SB-27		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 12.90	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -103	43	18.85	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 7/26/21	DRILLING ENDED 7/26/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 20	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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		
	0	20	6	Cement with 5% Bentonite	4.5	Trimie Pumped		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Released to Imaging: 5/2/2022 3:37:29 PM

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-27
Well owner: EOG Resources Phone No.: 432-848-9146
Mailing address: 5509 Champions Drive
City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 7/26/2021 Date well plugging concluded: 7/26/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 12.90 sec
Longitude: -103 deg, 43 min, 18.85 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21
Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 29		WELL TAG ID NO. SB-27A		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 12.57 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	18.87 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/12/21		DRILLING ENDED 8/12/21		DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 20	DEPTH WATER FIRST ENCOUNTERED (FT) NA	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	DEPTH (feet bgl)		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)
	FROM	TO						
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	6	Cement with 5% Bentonite	4.5	Tremie Pumped		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-27A

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 8/12/2021 Date well plugging concluded: 8/12/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 12.57 sec
Longitude: -103 deg, 43 min, 18.87 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21
Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 30		WELL TAG ID NO. SB-28		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 13.22 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	18.11 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/10/21	DRILLING ENDED 8/10/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 45	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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	
	0	45	6	Cement with 5% Bentonite		10	Tremie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-28

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/10/2021 Date well plugging concluded: 8/10/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 13.22 sec
Longitude: -103 deg, 43 min, 18.11 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 45 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21
Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 31		WELL TAG ID NO. SB-29		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 14.40 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	17.42 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/10/21	DRILLING ENDED 8/10/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 30	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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	
	0 30		6	Cement with 5% Bentonite		6.5	Tremie Pumped	


FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Fine Silty Sand Brown	Y ✓ N	
	4	8	4	Caliche	Y ✓ N	
	8	30	22	Medium Sandstone Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman		

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Shawn Cain DATE

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-29

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 8/10/2021 Date well plugging concluded: 8/10/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 14.40 sec
Longitude: -103 deg, 43 min, 17.42 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 30 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21
Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 32		WELL TAG ID NO. SB-30		OSE FILE NO(S) C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 12.85 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	16.97 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/9/21	DRILLING ENDED 8/9/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 30	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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		
	0	30	6	Cement with 5% Bentonite	6.5	Tremie Pumped		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-30

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/9/2021 Date well plugging concluded: 8/9/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 12.85 sec
Longitude: -103 deg, 43 min, 16.97 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 30 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

Sh L

11/20/21

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 33		WELL TAG ID NO. SB-31		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 13.72 N	• ACCURACY REQUIRED: ONE TENTH OF A SECOND • DATUM REQUIRED: WGS 84			
		LONGITUDE -103	43	15.44 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/9/21		DRILLING ENDED 8/9/21		DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 30	DEPTH WATER FIRST ENCOUNTERED (FT) NA	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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	
	0 30		6	Cement with 5% Bentonite		6.5	Tremie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	15	15	Fine Silty Sand Brown	Y ✓ N	
	15	25	10	Medium Sandstone Gray	Y ✓ N	
	25	30	5	Fat Clay	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman					
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME			Shawn Cain DATE		

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-31

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/9/2021 Date well plugging concluded: 8/9/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 13.72 sec
Longitude: -103 deg, 43 min, 15.44 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 30 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):


For each interval plugged, describe within the following columns:

[illegible]

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.


Signature of Well Driller

11/20/21
Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 34		WELL TAG ID NO. SB-32		OSE FILE NO(S). C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	
					ZIP 79706		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 13.86	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE -103	43	14.75	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 7/27/21		DRILLING ENDED 7/27/21		DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 20	DEPTH WATER FIRST ENCOUNTERED (FT) NA
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	DEPTH (feet bgl)		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)
	FROM	TO					
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO					
	0	20	6	Cement with 5% Bentonite	4.5	Tremie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	15	15	Fine Silty Sand Brown	Y <input checked="" type="checkbox"/> N	
	15	20	5	Caliche	Y <input checked="" type="checkbox"/> N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.					
	MISCELLANEOUS INFORMATION:					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman						
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 Shawn Cain				11/20/21	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE	

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-32

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 7/27/2021 Date well plugging concluded: 7/27/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 13.86 sec
Longitude: -103 deg, 43 min, 14.75 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

Sh C.

11/20/21

Version: September 8, 2009
Page 2 of 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 35		WELL TAG ID NO. SB-33		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 11.77 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	16.05 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/8/21	DRILLING ENDED 8/8/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 65	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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	
	0	65	6	Cement with 5% Bentonite		10	Tremie Pumped	


FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
FROM	TO				
0	6	6	Fine Silty Sand Brown	Y ✓ N	
6	8	2	Caliche	Y ✓ N	
8	20	12	Fine silty sand Brown	Y ✓ N	
20	35	15	Medium Sandstone	Y ✓ N	
35	40	5	Fat Clay	Y ✓ N	
40	50	10	Medium Sandstone	Y ✓ N	
50	55	5	Fat Clay	Y ✓ N	
55	60	5	Medium sandstone	Y ✓ N	
60	65	5	Fat Clay	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:				TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman	

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Shawn Cain DATE 11/20/21

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-33

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/8/2021 Date well plugging concluded: 8/8/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 11.77 sec
Longitude: -103 deg, 43 min, 16.05 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 65 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 36		WELL TAG ID NO. SB-34		OSE FILE NO(S). C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	
					ZIP 79706		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 11.45	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE -103	43	16.62	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 8/8/21	DRILLING ENDED 8/8/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 25	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	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)
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	
	0 25		6	Cement with 5% Bentonite	5.5	Tremie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)		ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO					
4. HYDROGEOLOGIC LOG OF WELL	0	4	4	Fine Silty Sand Brown	Y	✓ N	
	4	10	6	Caliche	Y	✓ N	
	10	25	15	Fine Silty Sand Brown	Y	✓ N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					0.00		
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.					
	MISCELLANEOUS INFORMATION:						
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman							
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.						
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div style="text-align: center;"> Shawn Cain _____ DATE </div> <div style="text-align: center;"> 11/20/21 _____ </div> </div>							

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-34

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/8/2021 Date well plugging concluded: 8/8/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 11.45 sec
Longitude: -103 deg, 43 min, 16.62 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 25 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 37		WELL TAG ID NO. SB-35		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 11.77 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	17.71 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/8/21	DRILLING ENDED 8/18/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 80	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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	
	0 80		6	Cement with 5% Bentonite		17	Tremie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Fine Silty Sand Brown	Y ✓ N	
	6	8	2	Caliche	Y ✓ N	
	8	25	17	Fine silty sand Brown	Y ✓ N	
	25	30	5	Medium Sandstone	Y ✓ N	
	30	35	5	Fat Clay	Y ✓ N	
	35	60	25	Medium Sandstone	Y ✓ N	
	60	70	15	Fat Clay	Y ✓ N	
	70	80	10	Medium sandstone	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman					
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME				11/20/21 DATE	

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-35

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/8/2021 Date well plugging concluded: 8/18/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 11.77 sec
Longitude: -103 deg, 43 min, 17.71 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 80 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21
Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 38		WELL TAG ID NO. SB-36		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 11.18 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	17.82 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/8/21	DRILLING ENDED 8/8/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 80	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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	
	0	80	6	Cement with 5% Bentonite		17	Tremie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Fine Silty Sand Brown	Y ✓ N	
	4	8	4	Caliche	Y ✓ N	
	8	25	17	Fine silty sand Brown	Y ✓ N	
	25	30	5	Medium Sandstone	Y ✓ N	
	30	35	5	Fat Clay	Y ✓ N	
	35	50	15	Medium Sandstone	Y ✓ N	
	50	55	5	Fat Clay	Y ✓ N	
	55	60	5	Medium sandstone	Y ✓ N	
	60	70	10	Fat Clay	Y ✓ N	
	70	80	10	Medium Sandstone	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.					
	MISCELLANEOUS INFORMATION:					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman					
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME				11/20/21 DATE	

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-36

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 8/8/2021 Date well plugging concluded: 8/8/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 11.18 sec
Longitude: -103 deg, 43 min, 17.82 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 80 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 39		WELL TAG ID NO. SB-37		OSE FILE NO(S). C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 11.17 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -103	43	18.73 W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 8/7/21	DRILLING ENDED 8/7/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 65	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	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)
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	
	0 65		6	Cement with 5% Bentonite	14	Tremie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-37

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 8/7/2021 Date well plugging concluded: 8/7/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 11.17 sec
Longitude: -103 deg, 43 min, 18.73 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 65 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

SHC

11/20/21

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 40		WELL TAG ID NO. SB-38		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 10.67 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	18.71 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/7/21	DRILLING ENDED 8/7/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 65	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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	
	0	65	6	Cement with 5% Bentonite		14	Tremie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-38

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 8/7/2021 Date well plugging concluded: 8/7/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 10.67 sec
Longitude: -103 deg, 43 min, 18.71 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 65 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21
Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 41		WELL TAG ID NO. SB-39		OSE FILE NO(S) C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 10.40 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	19.46 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 7/26/21	DRILLING ENDED 7/26/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 15	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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	
	0	15	6	Cement with 5% Bentonite		3.5	Tremie Pumped	


FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	15	15	Fine Silty Sand Brown	Y <input checked="" type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
					Y <input type="checkbox"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman	

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Shawn Cain DATE

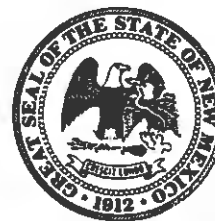
FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-39
Well owner: EOG Resources Phone No.: 432-848-9146
Mailing address: 5509 Champions Drive
City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 7/26/2021 Date well plugging concluded: 7/26/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 10.40 sec
Longitude: -103 deg, 43 min, 19.46 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 15 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 42		WELL TAG ID NO. SB-40		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 24	12.92	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE	-103	43	19.97	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 7/26/21	DRILLING ENDED 7/26/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 20	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	DEPTH (feet bgl)		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)
	FROM	TO						
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	6	Cement with 5% Bentonite	4.5	Tremie Pumped		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR OSE INTERNAL USE



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-40

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas


Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 7/26/2021 Date well plugging concluded: 7/26/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 12.92 sec
Longitude: -103 deg, 43 min, 19.97 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:


Signature of Well Driller

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 42		WELL TAG ID NO. SB-40A		OSE FILE NO(S) C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 24	12.58	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE	-103	43	20.02	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/12/21	DRILLING ENDED 8/12/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 25	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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	
	0	25	6	Cement with 5% Bentonite		5.5	Tremie Pumped	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-40A

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/12/2021 Date well plugging concluded: 8/12/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 12.58 sec
Longitude: -103 deg, 43 min, 20.02 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 25 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21
Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 43		WELL TAG ID NO. SB-41		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 24	13.98	N		
		LONGITUDE	-103	43	19.07	W		
* 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 Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 7/2/21	DRILLING ENDED 7/2/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 15	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	DEPTH (feet bgl)		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)
	FROM	TO						
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	15	6	Cement with 5% Bentonite	3.5	Tremie Pumped		

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 04/30/19)		
FILE NO.		POD NO.		TRN NO.	
LOCATION			WELL TAG ID NO.		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)		ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO			Y	N	
	0	15	15	Fine Silty Sand Brown	Y	✓ N	
					Y	✓ N	
					Y	✓ N	
					Y	✓ N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):		
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					0.00		

5. TEST, RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman		

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Shawn Cain DATE

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-41

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 7/2/2021 Date well plugging concluded: 7/2/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 13.98 sec
Longitude: -103 deg, 43 min, 19.07 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 15 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 44		WELL TAG ID NO. SB-42		OSE FILE NO(S). C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LATITUDE		24	14.79		
LONGITUDE		-103	43	18.64	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180							

2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 7/27/21	DRILLING ENDED 7/27/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 15	DEPTH WATER FIRST ENCOUNTERED (FT) NA			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	DEPTH (feet bgl)		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)
	FROM	TO						

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	15	6	Cement with 5% Bentonite	3.5	Tremie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

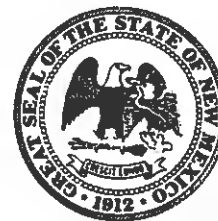
FILE NO.		POD NO.	TRN NO.
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Released to Imaging: 5/2/2022 3:37:29 PM

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-42

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 7/27/2021 Date well plugging concluded: 7/27/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 14.79 sec
Longitude: -103 deg, 43 min, 18.64 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 15 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7 4805	= gallons
cubic yards	x	201 97	= gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Date _____




WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 45		WELL TAG ID NO. SB-43		OSE FILE NO(S). C-4144			
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146			
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	ZIP 79706	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 8.90 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	43	21.50 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling		
	DRILLING STARTED 8/6/21	DRILLING ENDED 8/6/21	DEPTH OF COMPLETED WELL (FT) NA		BORE HOLE DEPTH (FT) 55	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic							
	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)
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		
	0	55	6	Cement with 5% Bentonite	12	Tremie Pumped		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/19)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	15	15	Fine Silty Sand Brown	Y ✓ N	
	15	20	5	Fat Clay	Y ✓ N	
	20	25	5	Fine silty sand Brown	Y ✓ N	
	25	35	10	Medium Sanstone	Y ✓ N	
	35	45	10	Fat Clay	Y ✓ N	
	45	55	10	Clayey sandstone	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cliff Hillman						
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME				11/20/21 DATE	

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-43

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cliff Hillman
- 4) Date well plugging began: 8/6/2021 Date well plugging concluded: 8/6/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 8.90 sec
Longitude: -103 deg, 43 min, 21.50 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

11/20/21
Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 46		WELL TAG ID NO. SB-44		OSE FILE NO(S). C-4144		
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL) 432-848-9146		
	WELL OWNER MAILING ADDRESS 5509 Champions Drive				CITY Midland	STATE Texas	
					ZIP 79706		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 7.79	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE -103	43	21.53	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling	
	DRILLING STARTED 8/6/21	DRILLING ENDED 8/6/21	DEPTH OF COMPLETED WELL (FT) NA	BORE HOLE DEPTH (FT) 30	DEPTH WATER FIRST ENCOUNTERED (FT) NA		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic						
	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)
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	
	0 30		6	Cement with 5% Bentonite	6.5	Tremie Pumped	

FOR OSE INTERNAL USE

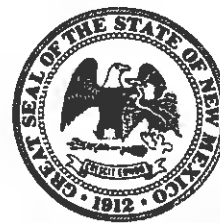
WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-44

Well owner: EOG Resources

Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland

State: Texas

Zip code: 79706

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman
- 4) Date well plugging began: 8/6/2021 Date well plugging concluded: 8/6/2021
- 5) GPS Well Location: Latitude: 32 deg, 24 min, 7.79 sec
Longitude: -103 deg, 43 min, 21.53 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 30 ft below ground level (bgl),
by the following manner: tag line
- 7) Static water level measured at initiation of plugging: None ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:


Signature of Well Driller

Date _____

Appendix D

NMSOE Well Permits and BLM Sundry



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 2 Office, Roswell, NM

John R. D'Antonio Jr., P.E.
State Engineer

1900 West Second Street
Roswell, New Mexico 88201
(575) 622-6521
FAX: (575) 623-8559

March 24, 2021

EOG Resources
c/o GHD Services
5509 Champions Dr
Albuquerque, NM 79706

RE: *Well Plugging Plan of Operations for C-4144-POD13/POD46*

Greetings:

Enclosed is your copy of Well Plugging Plan of Operations for the above referenced project, which has been approved subject to the attached Specific Conditions of Approval. The following conditions of approval have been developed to ensure compliance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 13, 2017, by the State Engineer.

Aggrieval of this permit, or any of the conditions of approval therein, suspends the permit. No plugging operations shall occur while a permit is aggrieved.

Sincerely,

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

Claudia K. Guillen
Engineering Tech III
Water Resources Allocation Program

encl

Specific Conditions of Approval for C-4144-POD13-POD456

- 1) If groundwater is not encountered the borehole can be filled with drill cuttings or clean native fill up to 10 feet below ground surface. From 10 feet below ground surface to ground surface the borehole will be filled with bentonite. Bentonite chips shall be hydrated with 5 gallons of water per 50 pound sack.
- 2) The cement-bentonite slurry (bentonite powder) shall be mixed using a maximum of 5.2 gallons water per 94-lb sack Type II portland cement **PLUS** 0.65 gallons per 1% increase in bentonite up to a maximum 6% bentonite by dry weight ratio. Bentonite must be hydrated separately and then mixed.
 - a) Grout shall be tremied from the bottom up.
- 3) A completed Plugging Record form shall be submitted no later than 30 days after completion of the plugging.
- 4) Before any attempts are made to plug this well, the O.S.E. District II Office shall be notified 48 hours in advance of the anticipated schedule for plugging, so that an O.S.E. representative has the opportunity to witness the procedures, if deemed necessary.
- 5) Any deviation from this plan must obtain an approved variance from this office prior to implementation.
- 6) Aggrieval of this permit, or any of the conditions of approval therein, suspends the permit. No plugging operations shall occur while a permit is aggrieved.

Witness my hand and seal this 24th day of March A.D., 2021

John R. D'Antonio Jr., P.E., State Engineer

By: _____

Claudia K. Guillen
Engineering Tech III





WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgman/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☒ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: SB-12 **C-4144**

Name of well owner: EOG Resources

Mailing address: 5509 Champions Drive County: _____

City: Midland State: Texas Zip code: 79706

Phone number: 432-848-9146 E-mail: James_kennedy@eogresources.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: White Drilling Company, Inc.

New Mexico Well Driller License No.: WD-1456 Expiration Date: 09-30-2022

IV. WELL INFORMATION: ☒ Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32° deg, 24' min, 09.21" sec
Longitude: -103° deg, 43' min, 21.72" sec, NAD 83

2) Reason(s) for plugging well(s):

These are soil borings are not going to be wells. The plugging plans are for in case we encounter groundwater.

3) Was well used for any type of monitoring program? no If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? unknown If yes, provide additional detail, including analytical results and/or laboratory report(s): _____

5) Static water level: unknown feet below land surface / feet above land surface (circle one)

6) Depth of the well: unknown feet

- 7) Inside diameter of innermost casing: 4-3/8' inches.
- 8) Casing material: n/a
- 9) The well was constructed with:
☐ an open-hole production interval, state the open interval: _____
☐ a well screen or perforated pipe, state the screened interval(s): _____
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? _____
- 11) Was the well built with surface casing? _____ If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? _____ If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? _____ If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: ☐ If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

Tremie grout from bottom up.
- 2) Will well head be cut-off below land surface after plugging? _____

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 146 Gallons or 19.63 cf
- 4) Type of Cement proposed: Portland Cement w/5% Bentonite Grout - Type II
- 5) Proposed cement grout mix: 6 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
X mixed on site

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	0 feet		
Bottom of proposed interval of grout placement (ft bgl)	100 feet		
Theoretical volume of grout required per interval (gallons)	146 Gallons		
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	6 Gallons of Water		
Mixed on-site or batch-mixed and delivered?	On-Site		
Grout additive 1 requested	5% Bentonite Grout		
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant or grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT to WD-08 Plan of Plugging MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required):									
<input checked="" type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> NM West Zone <input type="checkbox"/> NM Central Zone <input checked="" type="checkbox"/> NM East Zone		<input checked="" type="checkbox"/> UTM (NAD83) (Meters) <input type="checkbox"/> Zone 13N <input type="checkbox"/> Zone 12N		<input checked="" type="checkbox"/> Lat/Long (WGS84) (1/10 th of second)		OTHER (allowable only for move-from descriptions - see application form for format) <input type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant			
OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N):
6-4144									
POD 15	SB-13	-103°43'20.96"E	32°24'09.07"N				105-110ft	146gal.	
" 14	SB-14	-103°43'21.85"E	32°24'08.65"N						
" 17	SB-15	-103°43'21.79"E	32°24'08.09"N						
" 18	SB-16	-103°43'20.99"E	32°24'08.03"N						
" 19	SB-17	-103°43'20.64"E	32°24'08.04"N						
" 20	SB-18	-103°43'21.20"E	32°24'13.89"N						
" 21	SB-19	-103°43'20.43"E	32°24'13.69"N						
" 22	SB-20	-103°43'21.14"E	32°24'13.25"N						
" 23	SB-21	-103°43'20.80"E	32°24'13.25"N						
" 24	SB-22	-103°43'19.89"E	32°24'13.57"N						
" 25	SB-23	-103°43'18.14"E	32°24'15.26"N						
" 26	SB-24	-103°43'18.21"E	32°24'14.62"N						

FOR OSE INTERNAL USE

Multiple Monitoring POD Descriptions, Form wr-08m (Rev 7/31/19)

File Number: 6-4144	Trn Number: 690620
Trans Description (optional): Plg Plan	



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT to WD-08 Plan of Plugging MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required):									
<input checked="" type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> NM West Zone <input type="checkbox"/> NM Central Zone <input checked="" type="checkbox"/> NM East Zone		<input checked="" type="checkbox"/> UTM (NAD83) (Meters) <input type="checkbox"/> Zone 13N <input type="checkbox"/> Zone 12N		<input checked="" type="checkbox"/> Lat/Long (WGS84) (1/10 th of second)		OTHER (allowable only for move-from descriptions - see application form for format) <input type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant			
OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N):
C-4144									
POD 27	SB-25	-103°43'18.40"E	32°24'14.17"N				105-110ft	144 gal	
" 28	SB-26	-103°43'18.62"E	32°24'13.51"N						
" 29	SB-27	-103°43'18.85"E	32°24'12.90"N						
" 30	SB-28	-103°43'18.11"E	32°24'13.22"N						
" 31	SB-29	-103°43'17.42"E	32°24'14.55"N						
" 32	SB-30	-103°43'16.97"E	32°24'12.85"N						
" 33	SB-31	-103°43'15.44"E	32°24'13.72"N						
" 34	SB-32	-103°43'14.75"E	32°24'13.86"N						
" 35	SB-33	-103°43'16.05"E	32°24'11.77"N						
" 36	SB-34	-103°43'16.62"E	32°24'11.45"N						
" 37	SB-35	-103°43'17.73"E	32°24'11.83"N						
" 38	SB-36	-103°43'17.82"E	32°24'11.18"N						

FOR OSE INTERNAL USE Multiple Monitoring POD Descriptions, Form wr-08m (Rev 7/31/19)

File Number: C-4144	Trn Number: 690620
Trans Description (optional): Plg Plan	



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT to WD-08 Plan of Plugging MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required):									
<input checked="" type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> NM West Zone <input type="checkbox"/> NM Central Zone <input checked="" type="checkbox"/> NM East Zone		<input checked="" type="checkbox"/> UTM (NAD83) (Meters) <input type="checkbox"/> Zone 13N <input type="checkbox"/> Zone 12N		<input checked="" type="checkbox"/> Lat/Long (WGS84) (1/10 th of second)		OTHER (allowable only for move-from descriptions - see application form for format) <input type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant			
OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N)
POD 39	SB-37	-103°43'18.73"E	32°24'11.17"N				105-110ft	14 legal	
" 40	SB-38	-103°43'18.71"E	32°24'10.67"N						
" 41	SB-39	-103°43'19.46"E	32°24'10.40"N						
" 42	SB-40	-103°43'17.69"E	32°24'11.09"N						
" 43	SB-41	-103°43'19.07"E	32°24'13.98"N						
" 44	SB-42	-103°43'18.64"E	32°24'14.79"N						
" 45	SB-43	-103°43'21.50"E	32°24'08.90"N						
" 46	SB-44	-103°43'21.53"E	32°24'07.79"N						
POD 13	PMW-10	-103°43'10.85" E	32°24'15.43"						
POD 14	PMW-11	-103°43'23.28" E	32°24'08.82" N						

FOR OSE INTERNAL USE Multiple Monitoring POD Descriptions, Form wr-08m (Rev 7/31/19)

File Number: C-4144	Trn Number: 690620
Trans Description (optional): PLg Plan	

File No. C-4144



NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well (Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input type="checkbox"/> Other(Describe):
<input checked="" type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

<input checked="" type="checkbox"/> Temporary Request - Requested Start Date: 2/9/21	Requested End Date: TBD
--	-------------------------

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

1. APPLICANT(S)

Name: EOG Resources	Name: GHD Services
Contact or Agent: <input type="checkbox"/> check here if Agent James Kennedy	Contact or Agent: <input checked="" type="checkbox"/> check here if Agent Charles Neligh
Mailing Address: 5509 Champions Drive	Mailing Address: 6121 Indian School Rd NE #200
City: Midland	City: Albuquerque
State: Texas Zip Code: 79706	State: New Mexico Zip Code: 87110
Phone: 432-848-9146 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):	Phone: 716-818-0224 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):
E-mail (optional): James_kennedy@eogresources.com	E-mail (optional): Charles.Neligh@ghd.com

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 11/17/16

File No. C-4144	Trn. No.: 690620	Receipt No.: 2-43110
Trans Description (optional): MON		
Sub-Basin: CUB	PCW/LOG Due Date: 3/25/2022	

Page 1 of 3

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).

District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

- ☒ NM State Plane (NAD83) (Feet)
 ☒ UTM (NAD83) (Meters)
 ☒ Lat/Long (WGS84) (to the nearest 1/10th of second)
- ☐ NM West Zone
 ☐ Zone 12N
- ☒ NM East Zone
 ☒ Zone 13N
- ☐ NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-4144 POD12 PMW-10	-103°43'10.85" E	32°24'15.43"	T22s, R32E, Q7
C-4144 POD13 PMW-11	-103°43'23.28" E	32°24'08.82" N	T22S, R31E, Q12
C-4144 POD14 SB-12	-103°43'21.72" E	32°24'09.21" N	T22s, R32E, Q7
C-4144 POD15 SB-13	-103°43'20.96"E	32°24'09.07"N	T22s, R32E, Q7
C-4144 POD16 SB-14	-103°43'21.85"E	32°24'08.65"N	T22s, R32E, Q7

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)

Additional well descriptions are attached: ☒ Yes ☐ No If yes, how many 30

Other description relating well to common landmarks, streets, or other:
Approx 10.5 miles south of us hwy 62/180

Well is on land owned by: BLM - Sundry included

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☒ Yes ☐ No
If yes, how many 5

Approximate depth of well (feet): 105-110'BGS

Outside diameter of well casing (inches): 2"

Driller Name: White Drilling Co.

Driller License Number: WD-1456

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Well construction will be a 2-in dia. PVC casing with a 15-20 ft. 0.010-in slotted screen. Grade 10/20 silica sand pack will be placed in the annulus to 2 ft. above the screen. A 2ft. thick hydrated bentonite plug will be placed on top of the sand pack followed by cement/bentonite grout to the surface.

The soil borings will be advanced in order to help delineated the extent of the impact. If groundwater is encountered a monitoring well may be constructed.

the duration of planned monitoring will continue until NMOCD grants remedial Site closure.

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-4144

Trn No.: 690620

Page 2 of 3

Page 274 of 713
Received by OCD: 2/28/2022 3:08:14 PM
Released to Imaging: 5/2/2022 3:37:29 PM

SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory: <input type="checkbox"/> Include a description of any proposed pump test, if applicable.	Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation. <input type="checkbox"/> The estimated duration of the operation. <input type="checkbox"/> The maximum amount of water to be diverted. <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.	Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: <input checked="" type="checkbox"/> Include the reason for the monitoring well, and, <input checked="" type="checkbox"/> The duration of the planned monitoring.		Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project. <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Charles Neligh of GHD on behalf of EOG Resources

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief

Charles Neligh
Digitally signed by Charles Neligh
Date: 2021.02.11 14:45:32 -07'00'
Applicant Signature

[Signature]
Applicant Signature



ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 25 day of March 20 21 for the State Engineer.

John R. D'Antonio Jr., P.E., State Engineer

By: [Signature]
Signature

Juan Hernandez
Print

Title: Water Resources Manager I
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-4144

Trn No.: 690620



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a: <input type="checkbox"/> Move-From Point of Diversion(s) <input type="checkbox"/> Move-To Point of Diversion(s)		b. Information on Attachment(s): Number of points of diversion involved in the application: <u>35</u> Total number of pages attached to the application: <u>5</u>	
<input type="checkbox"/> Surface Point of Diversion OR <input checked="" type="checkbox"/> Well			
Name of ditch, acequia, or spring:			
Stream or water course:			
Tributary of:			
c. Location (Required): Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)			
NM State Plane (NAD83) (feet) NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone <input type="checkbox"/>	UTM (NAD83) (meters) Zone 13N <input type="checkbox"/> Zone 12N <input type="checkbox"/>	<input checked="" type="checkbox"/> Lat/Long-- (WGS84) 1/10 th of second	OTHER (allowable only for move-from descriptions - see application form for format) <input checked="" type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant
POD Number: <u>C-4144</u> <u>POD 17</u> SB-15	X or Longitude -103°43'21.79"E	Y or Latitude 32°24'08.09"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>POD 18</u> SB-16	X or Longitude -103°43'20.99"E	Y or Latitude 32°24'08.03"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>POD 19</u> SB-17	X or Longitude -103°43'20.64"E	Y or Latitude 32°24'08.04"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>POD 20</u> SB-18	X or Longitude -103°43'21.20"E	Y or Latitude 32°24'13.89"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>POD 21</u> SB-19	X or Longitude -103°43'20.43"E	Y or Latitude 32°24'13.69"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>POD 22</u> SB-20	X or Longitude -103°43'21.14"E	Y or Latitude 32°24'13.25"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>POD 23</u> SB-21	X or Longitude -103°43'20.80"E	Y or Latitude 32°24'13.25"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>POD 24</u> SB-22	X or Longitude -103°43'19.89"E	Y or Latitude 32°24'13.57"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>POD 25</u> SB-23	X or Longitude -103°43'18.14"E	Y or Latitude 32°24'15.26"N	Other Location Description: T22s, R32E, Q7

FOR OSE INTERNAL USE

Form wr-08

POD DESCRIPTIONS - ATTACHMENT 1

File Number: C-4144Trn Number: 690620Trans Description (optional): MON



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a: <input type="checkbox"/> Move-From Point of Diversion(s) <input type="checkbox"/> Move-To Point of Diversion(s)		b. Information on Attachment(s): Number of points of diversion involved in the application: <u>35</u> Total number of pages attached to the application: <u>5</u>	
<input type="checkbox"/> Surface Point of Diversion OR <input checked="" type="checkbox"/> Well			
Name of ditch, acequia, or spring:			
Stream or water course:			
Tributary of:			
c. Location (Required): Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)			
NM State Plane (NAD83) (feet) NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone <input type="checkbox"/>	UTM (NAD83) (meters) Zone 13N <input type="checkbox"/> Zone 12N <input type="checkbox"/>	<input checked="" type="checkbox"/> Lat/Long-- (WGS84) 1/10 th of second	OTHER (allowable only for move-from descriptions - see application form for format) <input checked="" type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant
POD Number: <u>C-4144</u> <u>SB-24</u> <u>POD 26</u>	X or Longitude -103°43'18.21"E	Y or Latitude 32°24'14.62"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>SB-25</u> <u>POD 27</u>	X or Longitude -103°43'18.40"E	Y or Latitude 32°24'14.17"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>SB-26</u> <u>POD 28</u>	X or Longitude -103°43'18.62"E	Y or Latitude 32°24'13.51"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>SB-27</u> <u>POD 29</u>	X or Longitude -103°43'18.85"E	Y or Latitude 32°24'12.90"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>SB-28</u> <u>POD 30</u>	X or Longitude -103°43'18.11"E	Y or Latitude 32°24'13.22"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>SB-29</u> <u>POD 31</u>	X or Longitude -103°43'17.42"E	Y or Latitude 32°24'14.55"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>SB-30</u> <u>POD 32</u>	X or Longitude -103°43'16.97"E	Y or Latitude 32°24'12.85"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>SB-31</u> <u>POD 33</u>	X or Longitude -103°43'15.44"E	Y or Latitude 32°24'13.72"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> <u>SB-32</u> <u>POD 34</u>	X or Longitude -103°43'14.75"E	Y or Latitude 32°24'13.86"N	Other Location Description: T22s, R32E, Q7

FOR OSE INTERNAL USE

Form wr-08

POD DESCRIPTIONS - ATTACHMENT 1

File Number: C-4144Trn Number: 690620Trans Description (optional): MON



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a: <input type="checkbox"/> Move-From Point of Diversion(s) <input type="checkbox"/> Move-To Point of Diversion(s)		b. Information on Attachment(s): Number of points of diversion involved in the application: <u>35</u> Total number of pages attached to the application: <u>5</u>	
<input type="checkbox"/> Surface Point of Diversion OR <input checked="" type="checkbox"/> Well			
Name of ditch, acequia, or spring:			
Stream or water course:			
Tributary of:			
c. Location (Required): Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)			
NM State Plane (NAD83) (feet) NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone <input type="checkbox"/>	UTM (NAD83) (meters) Zone 13N <input type="checkbox"/> Zone 12N <input type="checkbox"/>	<input checked="" type="checkbox"/> Lat/Long— (WGS84) 1/10 th of second	OTHER (allowable only for move-from descriptions - see application form for format) <input checked="" type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant
POD Number: <u>C-4144</u> SB-33 <u>POD 35</u>	X or Longitude -103°43'16.05"E	Y or Latitude 32°24'11.77"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> SB-34 <u>POD 36</u>	X or Longitude -103°43'16.62"E	Y or Latitude 32°24'11.45"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> SB-35 <u>POD 37</u>	X or Longitude -103°43'17.73"E	Y or Latitude 32°24'11.83"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> SB-36 <u>POD 38</u>	X or Longitude -103°43'17.82"E	Y or Latitude 32°24'11.18"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> SB-37 <u>POD 39</u>	X or Longitude -103°43'18.73"E	Y or Latitude 32°24'11.17"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> SB-38 <u>POD 40</u>	X or Longitude -103°43'18.71"E	Y or Latitude 32°24'10.67"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> SB-39 <u>POD 41</u>	X or Longitude -103°43'19.46"E	Y or Latitude 32°24'10.40"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> SB-40 <u>POD 42</u>	X or Longitude -103°43'17.69"E	Y or Latitude 32°24'11.09"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> SB-41 <u>POD 43</u>	X or Longitude -103°43'19.07"E	Y or Latitude 32°24'13.98"N	Other Location Description: T22s, R32E, Q7

FOR OSE INTERNAL USE

Form wr-08

POD DESCRIPTIONS - ATTACHMENT 1

File Number: <u>C-4144</u>	Trn Number: <u>690620</u>
Trans Description (optional): <u>MON</u>	



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a: <input type="checkbox"/> Move-From Point of Diversion(s) <input type="checkbox"/> Move-To Point of Diversion(s)		b. Information on Attachment(s): Number of points of diversion involved in the application: <u>35</u> Total number of pages attached to the application: <u>5</u>	
<input type="checkbox"/> Surface Point of Diversion OR <input checked="" type="checkbox"/> Well			
Name of ditch, acequia, or spring:			
Stream or water course:			
Tributary of:			
c. Location (Required): Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)			
NM State Plane (NAD83) (feet) NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone <input checked="" type="checkbox"/>	UTM (NAD83) (meters) Zone 13N <input checked="" type="checkbox"/> Zone 12N <input type="checkbox"/>	<input checked="" type="checkbox"/> Lat/Long- (WGS84) 1/10 th of second	OTHER (allowable only for move-from descriptions - see application form for format) <input checked="" type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant
POD Number: <u>C-4144</u> SB-42 <u>POD 44</u>	X or Longitude -103°43'18.64"E	Y or Latitude 32°24'14.79"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> SB-43 <u>POD 45</u>	X or Longitude -103°43'21.50"E	Y or Latitude 32°24'08.90"N	Other Location Description: T22s, R32E, Q7
POD Number: <u>C-4144</u> SB-44 <u>POD 46</u>	X or Longitude -103°43'21.53"E	Y or Latitude 32°24'07.79"N	Other Location Description: T22s, R32E, Q7
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:

FOR OSE INTERNAL USE

Form wr-08

POD DESCRIPTIONS - ATTACHMENT 1

File Number: <u>C-4144</u>	Trn Number: <u>690420</u>
Trans Description (optional): <u>MON</u>	

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL

- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.
- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

Trn Desc: C 04144 POD12-46

File Number: C 04144

Trn Number: 690620

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion C 04144 POC28 must be completed and the Well Log filed on or before 03/25/2022.
- LOG The Point of Diversion C 04144 POD12 must be completed and the Well Log filed on or before 03/25/2022.

Trn Desc: C 04144 POD12-46

File Number: C 04144

Trn Number: 690620

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04144 POD13 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD14 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD15 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD16 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD17 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD18 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD19 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD20 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD21 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD22 must be completed and the Well Log filed on or before 03/25/2022.

Trn Desc: C 04144 POD12-46

File Number: C 04144

Trn Number: 690620

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04144 POD23 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD24 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD25 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD26 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD27 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD29 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD30 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD31 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD32 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD33 must be completed and the Well Log filed on or before 03/25/2022.

Trn Desc: C 04144 POD12-46

File Number: C 04144

Trn Number: 690620

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04144 POD34 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD35 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD36 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD37 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD38 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD39 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD40 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD41 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD42 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD43 must be completed and the Well Log filed on or before 03/25/2022.

Trn Desc: C 04144 POD12-46

File Number: C 04144

Trn Number: 690620

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- LOG The Point of Diversion C 04144 POD44 must be completed and the Well Log filed on or before 03/25/2022.
- LOG The Point of Diversion C 04144 POD45 must be completed and the Well Log filed on or before 03/25/2022.
- LOG The Point of Diversion C 04144 POD46 must be completed and the Well Log filed on or before 03/25/2022.

IT IS THE PERMITTEES RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 03/10/2021	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 25 day of Mar A.D., 2021

John R. D Antonio, Jr., P.E., State Engineer

By:

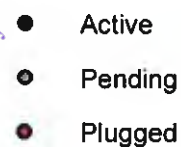
JUAN HERNADEZ

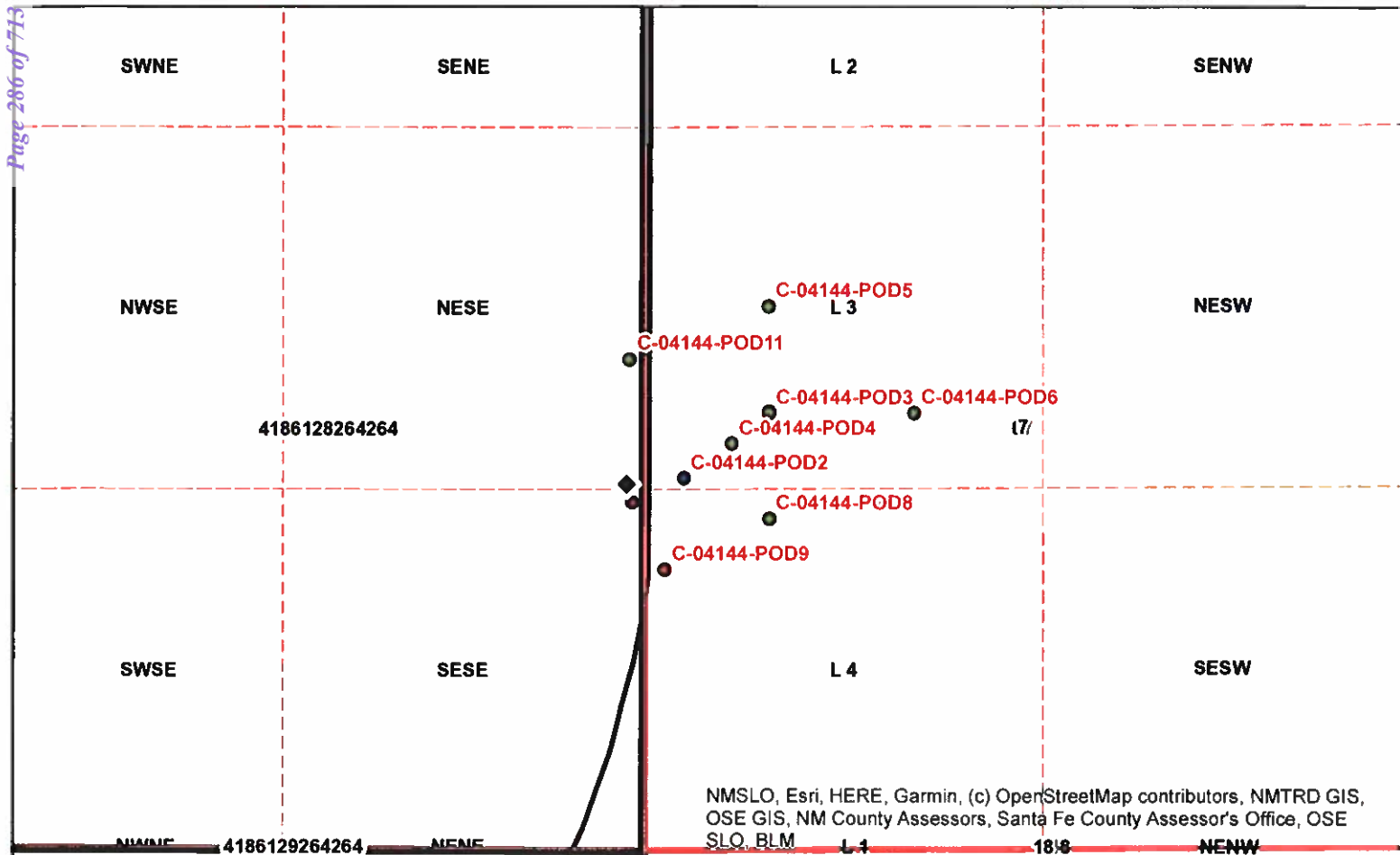


Trn Desc: C 04144 POD12-46

File Number: C 04144

Trn Number: 690620



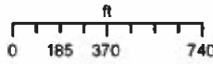


Coordinates
UTM - NAD 83 (m) - Zone 13
 Easting 620082.236
 Northing 3585762.152
State Plane - NAD 83 (f) - Zone E
 Easting 729665.704
 Northing 510678.108
Degrees Minutes Seconds
 Latitude 32 : 24 : 8.820000
 Longitude -103 : 43 : 23.280000
 Location pulled from Coordinate Search

Parcel Information
 UPC/DocNum: 4186128264264
 Parcel Owner: BUREAU OF LAND
 Address:null null null
Legal: Quarter: NE S: 12 T: 22S R: 31E Quarter: NW S: 12 T: 22S R: 31E Quarter: SW S: 12 T: 22S R: 31E Quarter: SE S: 12 T: 22S R: 31E ALL MAP# 280-12 LOC CARLSBAD EXEMPT

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028



GUILLEN

3/23/2021

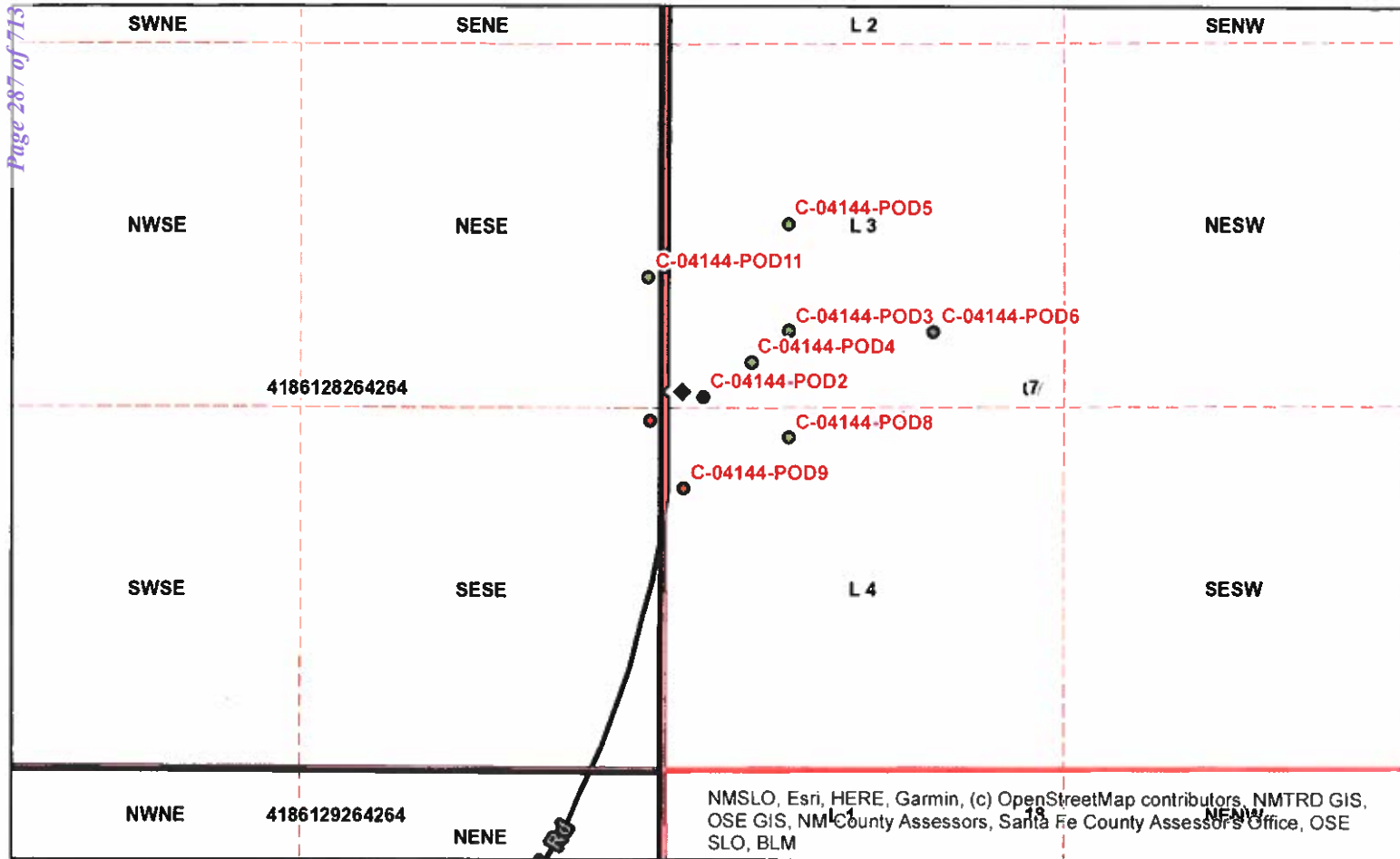


Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps and surveys represent the source data used in their preparation, however, a degree of error is inherent in all maps, and these maps may contain some errors and omissions. No warranty, express or implied, is made by the OSE for the use of these maps for any purpose other than that for which they were prepared. These maps are distributed "as is" without warranty of any kind.

Spatial Information
 County: Eddy
 Groundwater Basin: Carlsbad
 Abstract Area:C
 CUB
 Land Grant:
 Not in Land Grant
 Restrictions:
 NA
PLSS Description
 SESENESE Qtr of Sec 12 of 022S 031E
 Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

POD Information
 Owner: EOG/GHD
 File Number: C-4144 POD13
 POD Status: NoData
 Permit Status: NoData
 Permit Use: NoData
 Purpose: MON

- ◆ Coord Search Location
- Active
- Pending
- Plugged
- GIS WATERS**
- ODs**
- New Mexico State Trust Lands**
- Subsurface Estate
- Surface Estate
- Both Estates
- Chaves County Parcels 2020
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...



Coordinates
UTM - NAD 83 (m) - Zone 13
 Easting 620122.848
 Northing 3585774.649
State Plane - NAD 83 (f) - Zone E
 Easting 729799.221
 Northing 510718.284
Degrees Minutes Seconds
 Latitude 32 : 24 : 9.210000
 Longitude -103 : 43 : 21.720000
 Location pulled from Coordinate Search

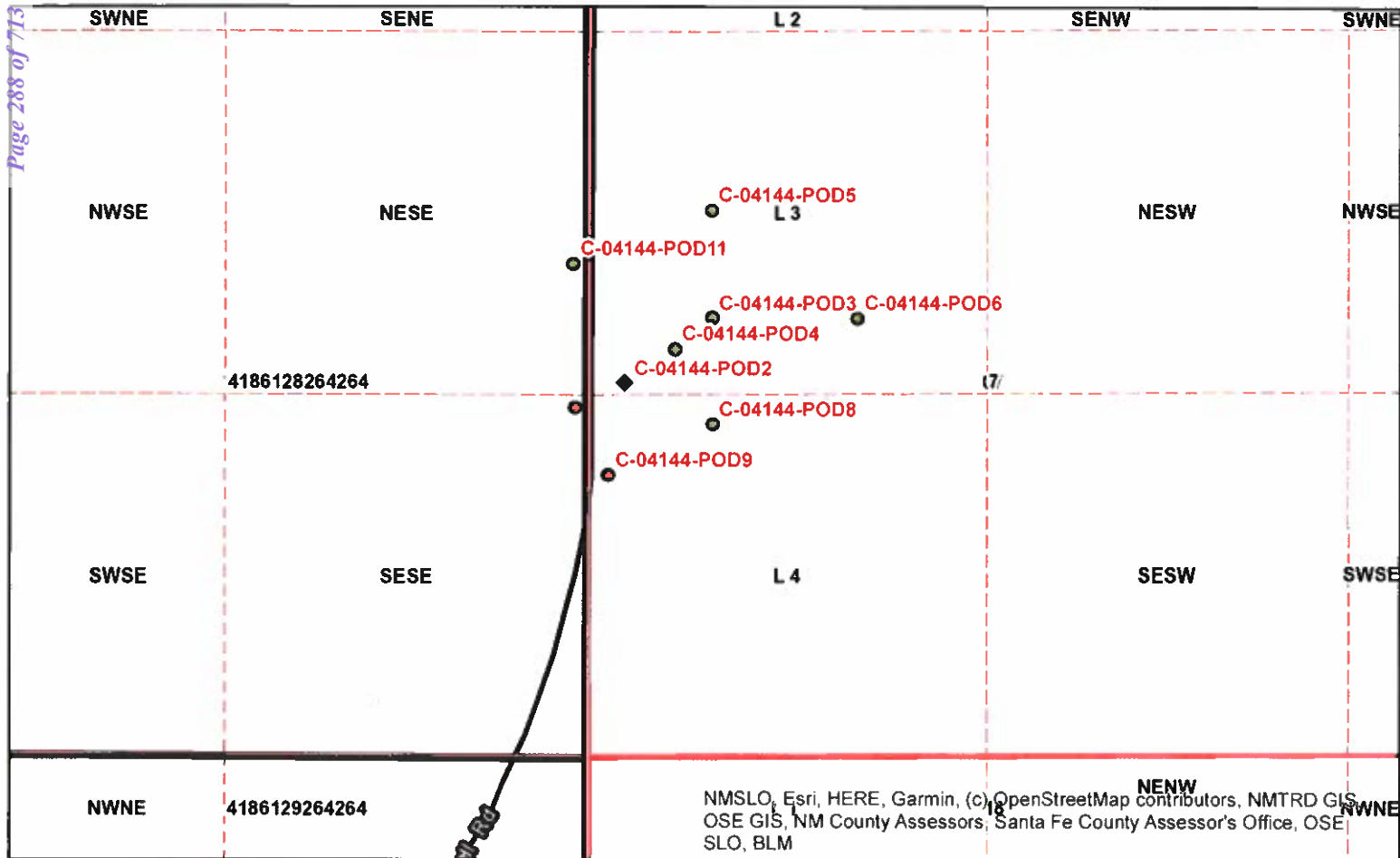
NEW MEXICO OFFICE OF THE STATE ENGINEER
 1:9,028
 0 185 370 740
 N
 GUILLEN 3/23/2021


Spatial Information
 County: Lea
 Groundwater Basin: Carlsbad
 Abstract Area: C
 CUB
 Land Grant:
 Not in Land Grant
 Restrictions:
 NA
PLSS Description
 SW SW NW SW Qtr of Sec 7 of 22S 32E
 Derived from Projected PLSS- Qtr Sec.
 locations are calculated and are only
 approximations

Parcel Information
 UPC/DocNum:
 Parcel Owner:
 Address: null null null null null null
 Legal:

POD Information
 Owner: EOG/GHD
 File Number: C-4144 POD14
 POD Status: NoData
 Permit Status: NoData
 Permit Use: NoData
 Purpose: MON

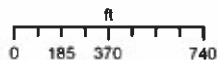
- | | | | |
|--|--|--|--|
| <ul style="list-style-type: none"> Coord Search Location GIS WATERS ODs Active Pending Plugged | <p>New Mexico State Trust Lands</p> <ul style="list-style-type: none"> Subsurface Estate Surface Estate Both Estates | <ul style="list-style-type: none"> Chaves County Parcels 2020 Eddy County Parcels 2020 Sections BLM Land Grant | <ul style="list-style-type: none"> PLSSTownship PLSSFirstDiv... PLSSSecond... |
|--|--|--|--|



Coordinates
UTM - NAD 83 (m) - Zone 13
 Easting 620142.755
 Northing 3585770.575
State Plane - NAD 83 (f) - Zone E
 Easting 729864.457
 Northing 510704.508
Degrees Minutes Seconds
 Latitude 32 : 24 : 9.070000
 Longitude -103 : 43 : 20.960000
 Location pulled from Coordinate Search

NEW MEXICO OFFICE
 OF THE
 STATE ENGINEER

1:9,028



GUILLEN

3/23/2021



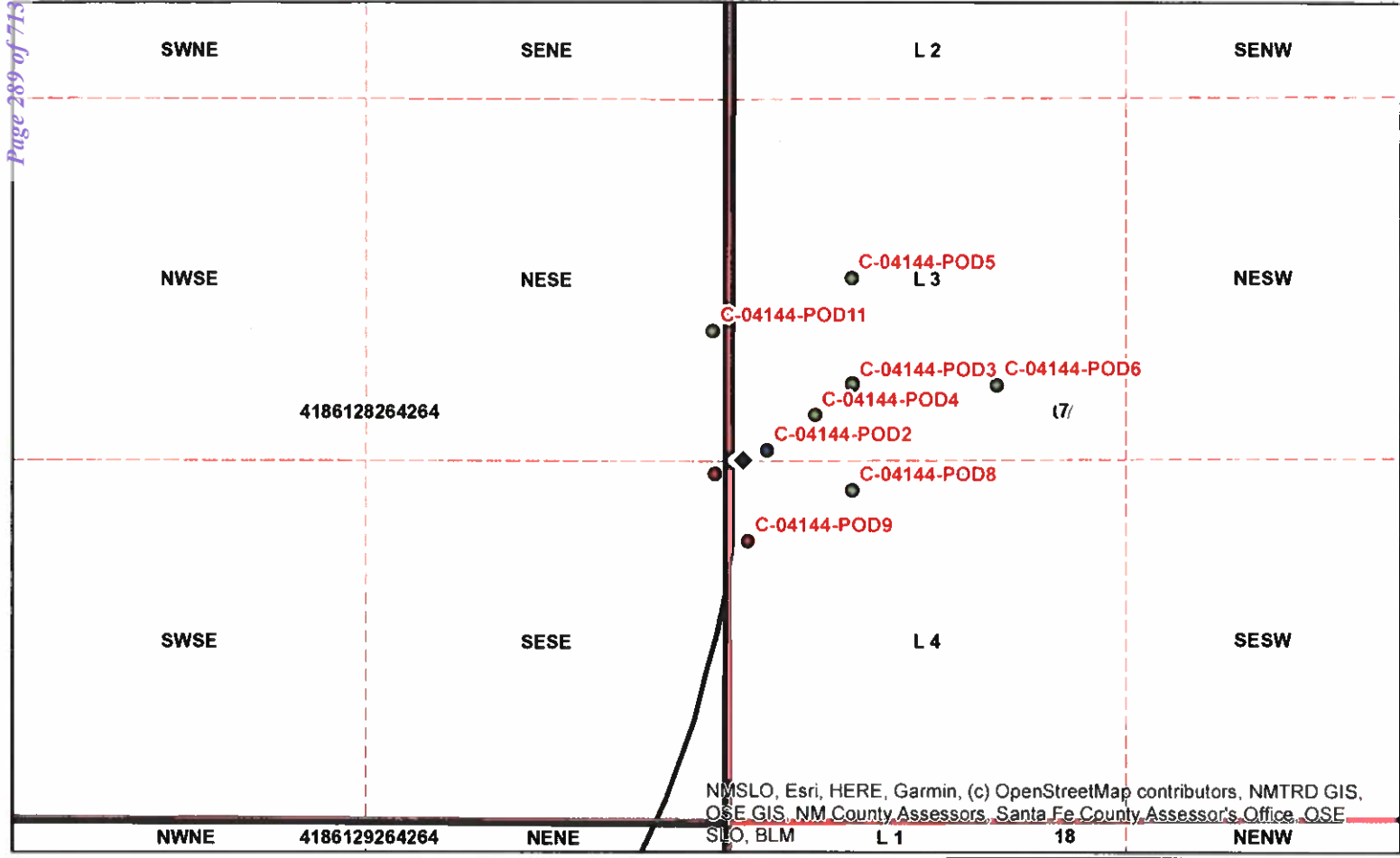
Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their production. However, a degree of error is inherent in all maps, and these maps may contain errors and omissions. The OSE, its staff, publisher and any other person or entity involved in the production of these maps shall not be held responsible for any errors or omissions. These maps are distributed as a public service and are not a warranty of any kind.

Spatial Information
 County: Lea
 Groundwater Basin: Carlsbad
 Abstract Area: C
 CUB
 Land Grant:
 Not in Land Grant
 Restrictions:
 NA
PLSS Description
 SW SW NW SW Qtr of Sec 7 of 22S 32E
 Derived from Projected PLSS- Qtr Sec.
 locations are calculated and are only
 approximations

Parcel Information
 UPC/DocNum:
 Parcel Owner:
 Address: null null null null null null
 Legal:

POD Information
 Owner: EOG/GHD
 File Number: C-4144 POD15
 POD Status: NoData
 Permit Status: NoData
 Permit Use: NoData
 Purpose: MON

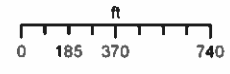
- ◆ Coord Search Location
- Active
- Pending
- Plugged
- New Mexico State Trust Lands**
- Subsurface Estate
- Surface Estate
- Both Estates
- Chaves County Parcels 2020
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...



Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620119.658
Northing 3585757.364
State Plane - NAD 83 (f) - Zone E
Easting 729788.399
Northing 510661.629
Degrees Minutes Seconds
Latitude 32 : 24 : 8.650000
Longitude -103 : 43 : 21.850000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:9,028



GUILLEN

3/23/2021



Responses where no response is given by the New Mexico Office of the State Engineer (OSE) shall be:
that this is a map accuracy, merged the source data, used in their preparation, however, a degree of
error is inherent in all maps, and that the map is a copy of the data and/or data in the field. The data
representation, positional accuracy, development methodology, interpretation of source data, and other
data are not guaranteed as a method of accuracy of the map.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
NW NW SW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD16
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

◆ Coord Search Location

GIS WATERS

ODs

- Active
- Pending
- Plugged

New Mexico State Trust Lands

- Subsurface Estate
- Surface Estate
- Both Estates

□ Chaves County Parcels 2020

□ Eddy County Parcels 2020

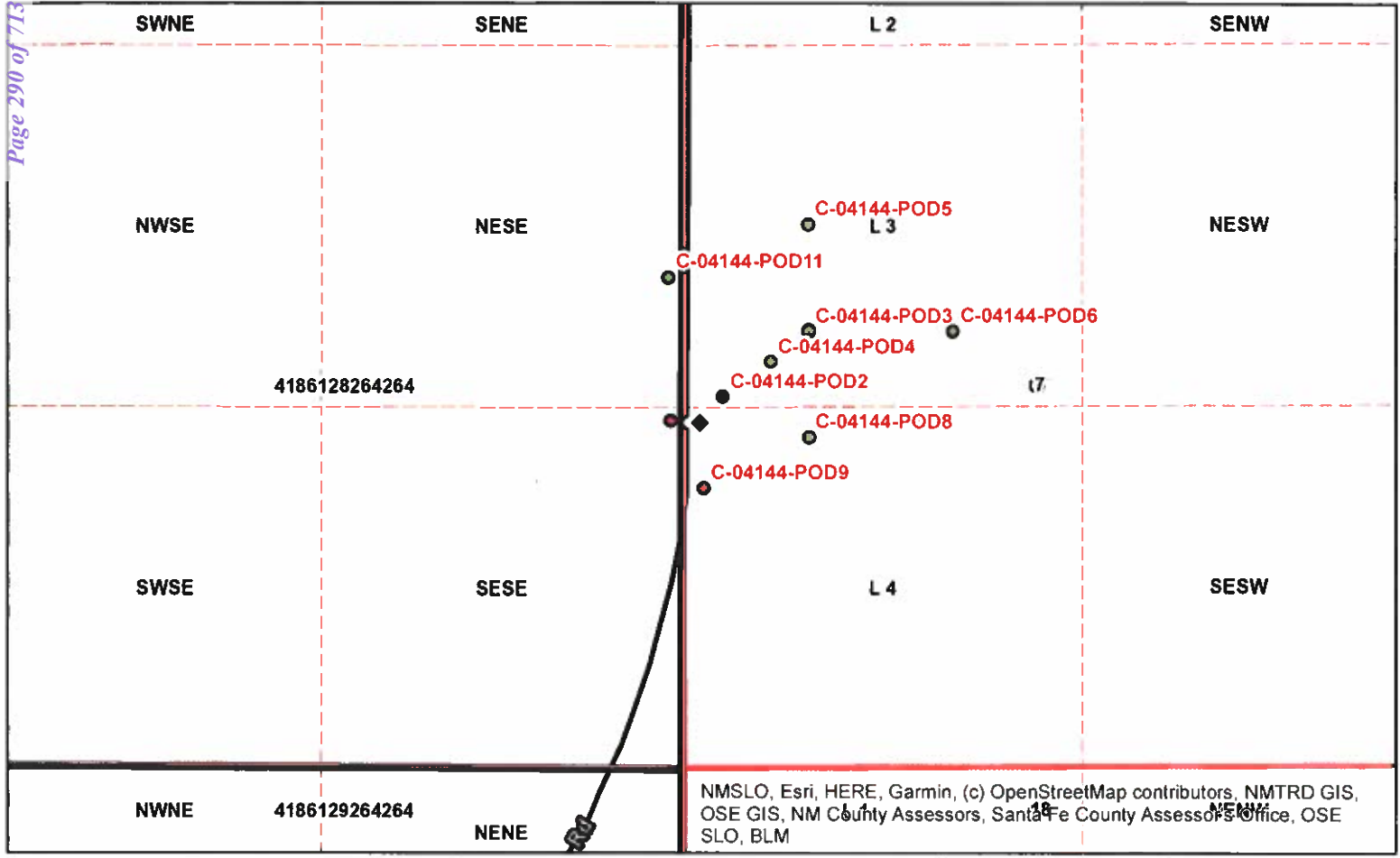
□ Sections

□ BLM Land Grant

□ PLSSTownship

□ PLSSFirstDiv...

□ PLSSSecond...

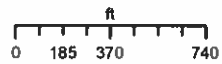


NMSLO, Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessors Office, OSE SLO, BLM

Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620121.431
Northing 3585740.137
State Plane - NAD 83 (f) - Zone E
Easting 729793.866
Northing 510605.067
Degrees Minutes Seconds
Latitude 32 : 24 : 8.090000
Longitude -103 : 43 : 21.790000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:9,028



GUILLEN

3/23/2021



Response efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their production, however, a degree of error is inherent in all maps, and these maps may contain errors and/or omissions. No warranty is made by the OSE regarding the accuracy, completeness, or timeliness of the information contained in these maps. These maps are distributed as is without warranty of any kind.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
NW NW SW SW Qtr of Sec 7 of 22S 32E

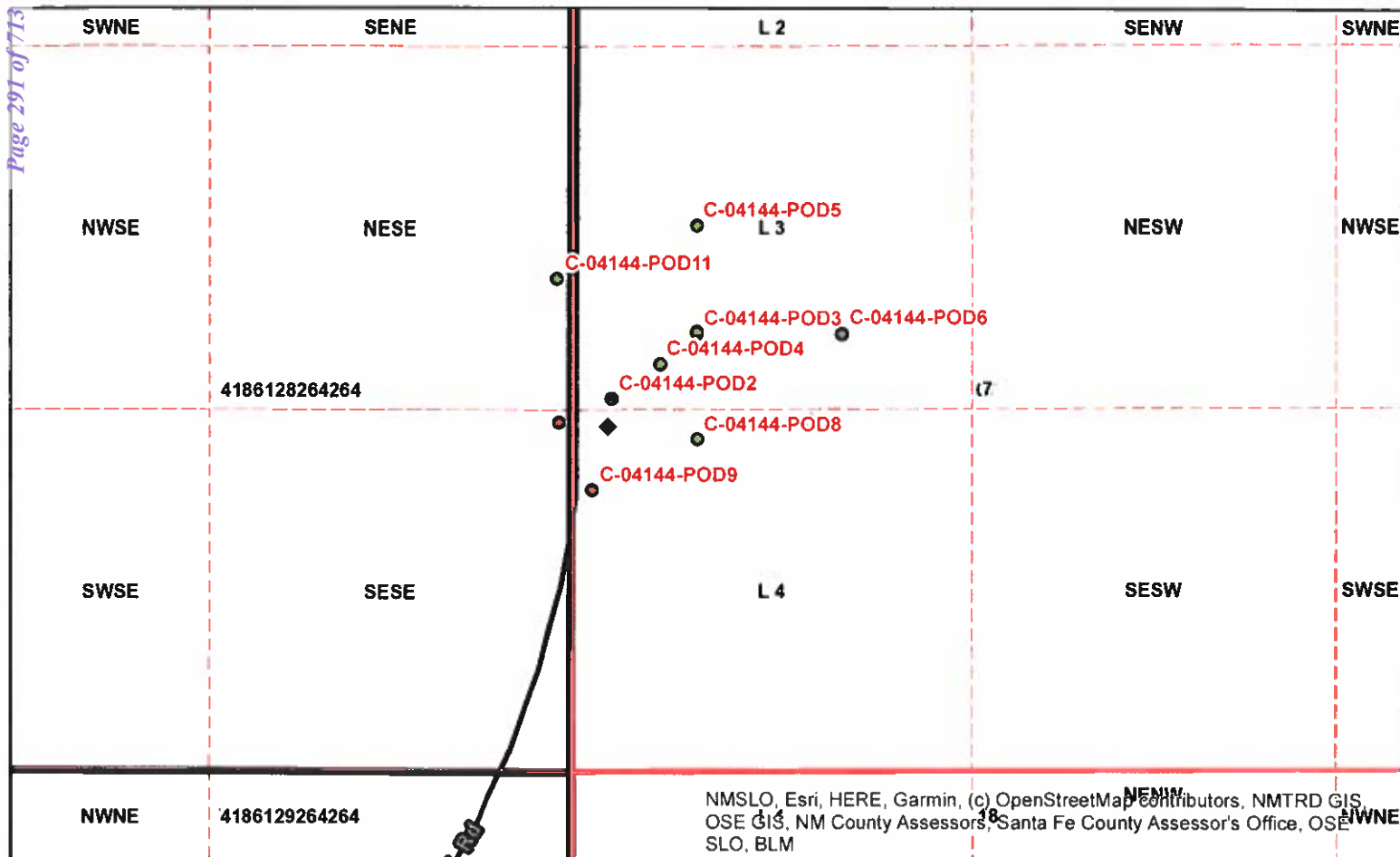
Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD17
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- | | | | |
|-------------------------|-------------------------------------|------------------------------|-------------------|
| ◆ Coord Search Location | New Mexico State Trust Lands | □ Chaves County Parcels 2020 | □ PLSSTownship |
| IS WATERS | Subsurface Estate | □ Eddy County Parcels 2020 | □ PLSSFirstDiv... |
| ● Active | Surface Estate | □ Sections | □ PLSSSecond... |
| ● Pending | Both Estates | □ BLM Land Grant | |
| ● Plugged | | | |



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620142.354

Northing 3585738.539

State Plane - NAD 83 (f) - Zone E

Easting 729862.486

Northing 510599.395

Degrees Minutes Seconds

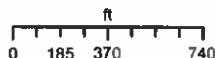
Latitude 32 : 24 : 8.030000

Longitude -103 : 43 : 20.990000

Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:9,028



N

GUILLEN

3/23/2021



Readers should be aware that the New Mexico Office of the State Engineer (OSE) does not warrant the accuracy of the data used in this report, nor does it warrant the accuracy of the data used in this report, nor does it warrant the accuracy of the data used in this report. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NW NW SW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec
locations are calculated and are only
approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD18

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

◆ Coord Search
Location

New Mexico State
Trust Lands

□ Chaves County
Parcels 2020

□ PLSSTownship

GIS WATERS
ODs

□ Eddy County
Parcels 2020

□ PLSSFirstDiv...

● Active
● Pending
● Plugged

Subsurface
Estate

□ Sections

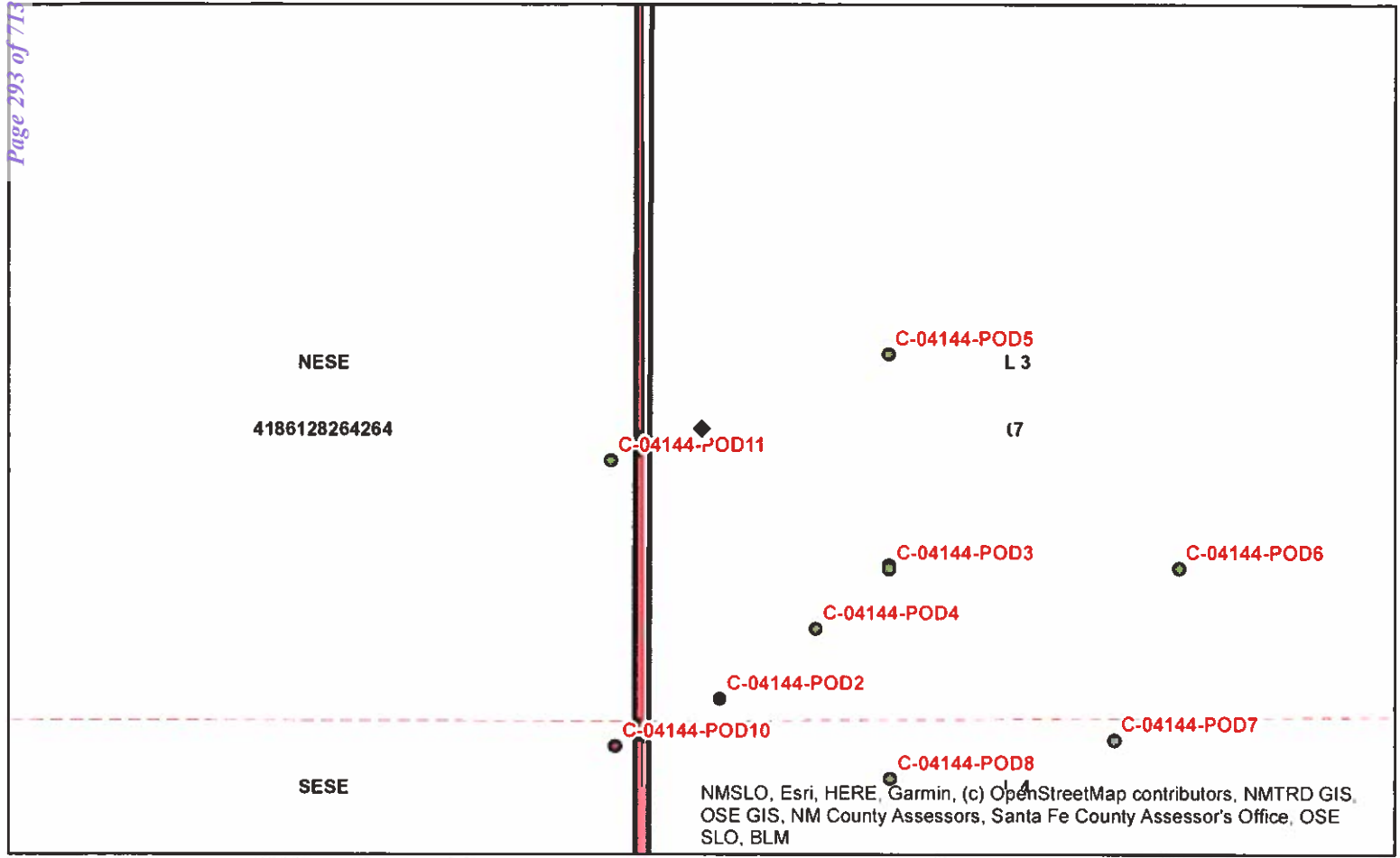
□ PLSSSecond...

Surface Estate

□ BLM Land
Grant

Both Estates





Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620134.711
Northing 3585918.931
State Plane - NAD 83 (f) - Zone E
Easting 729841.099
Northing 511191.478
Degrees Minutes Seconds
Latitude 32 : 24 : 13.890000
Longitude -103 : 43 : 21.200000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:4,514

0 90 180 360

N

GUILLEN 3/23/2021

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
NW SW NW SW Qtr of Sec 7 of 22S 32E

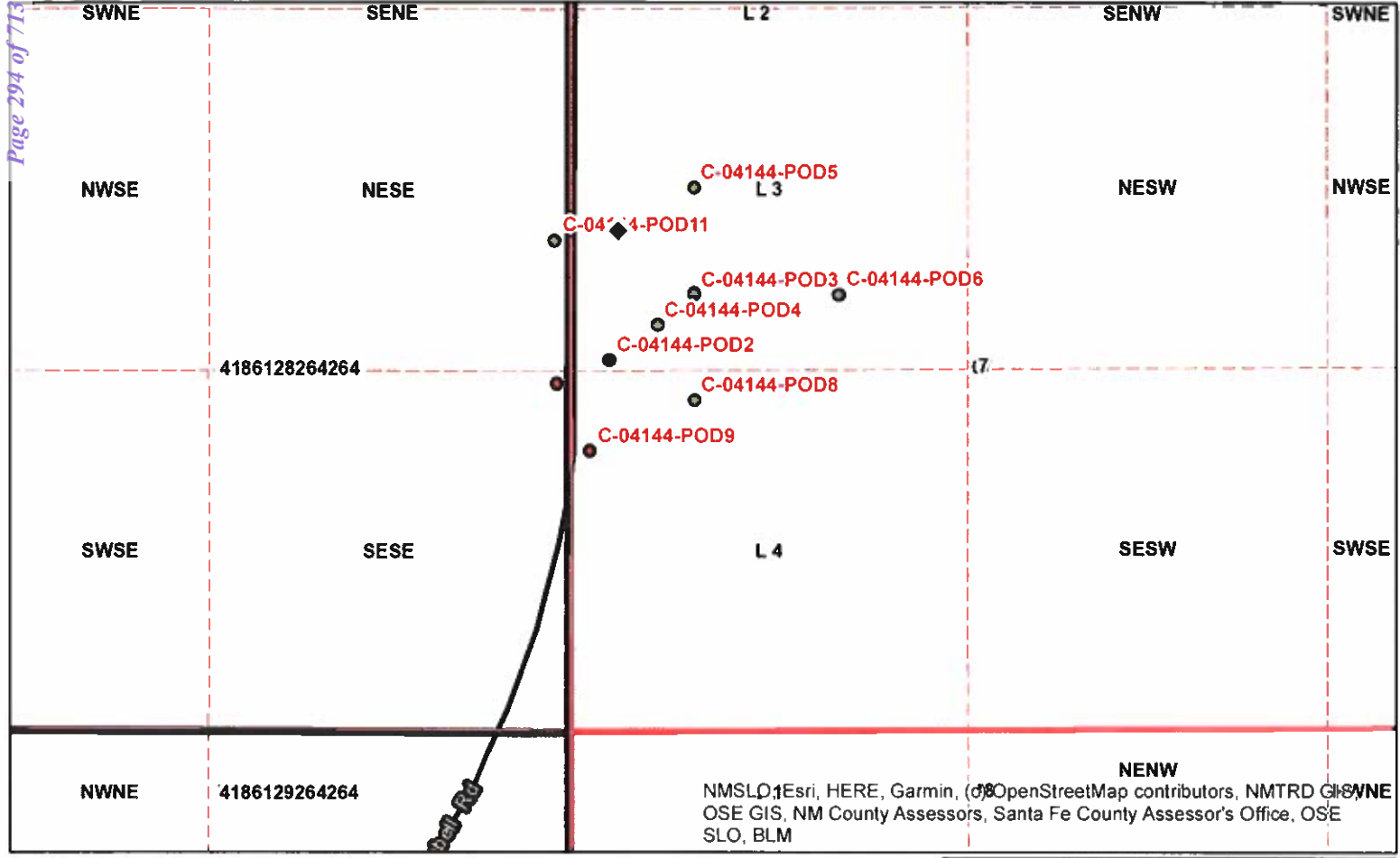
Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD20
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

◆ Coord Search Location	New Mexico State Trust Lands	□ Chaves County Parcels 2020	□ PLSS Township
IS WATERS	Subsurface Estate	□ Eddy County Parcels 2020	□ PLSS First Div...
● Active	Surface Estate	□ Sections	□ PLSS Second...
● Pending	Both Estates	□ BLM Land Grant	
● Plugged			



Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620154.901
Northing 3585913.013
State Plane - NAD 83 (f) - Zone E
Easting 729907.227
Northing 511171.644
Degrees Minutes Seconds
Latitude 32 : 24 : 13.690000
Longitude -103 : 43 : 20.430000
Location pulled from Coordinate Search

Parcel Information
UPC/DocNum:
Parcel Owner:
Address:null null null null null null
Legal:

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:9,028

0 185 370 740

N

GUILLEN 3/23/2021

Office of the State Engineer
Interstate Stream Commission

Response: AFRM has been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their production. However, a degree of error is inherent in all maps, and this is especially true in cases where a map is derived from a reproduction, position, accuracy, development methodology, interpretation of source data, and other considerations. These maps are provided "as is" without warranty of any kind.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area:C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
NW SW NW SW Qtr of Sec 7 of 22S 32E
Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

POD Information
Owner: EOG/GHD
File Number: C-4144 POD21
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

◆ Coord Search Location

GIS WATERS

● Active

● Pending

● Plugged

New Mexico State Trust Lands

Subsurface Estate

Surface Estate

Both Estates

□ Chaves County Parcels 2020

□ Eddy County Parcels 2020

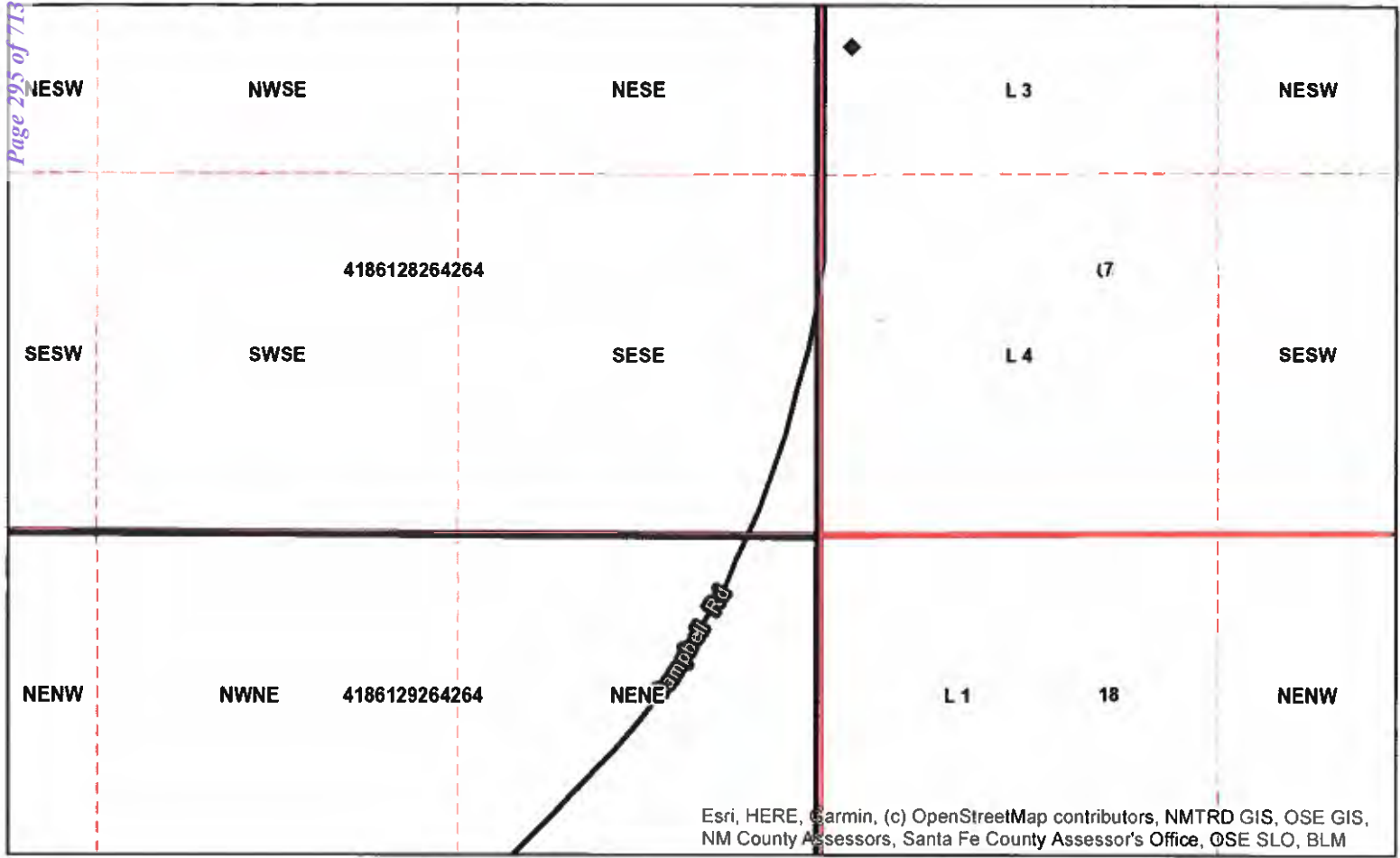
□ Sections

□ BLM Land Grant

□ PLSSTownship

□ PLSSFirstDiv...

□ PLSSSecond...



Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620136.514
Northing 3585899.241
State Plane - NAD 83 (f) - Zone E
Easting 729846.612
Northing 511126.832
Degrees Minutes Seconds
Latitude 32 : 24 : 13.250000
Longitude -103 : 43 : 21.140000
Location pulled from Coordinate Search

Parcel Information
UPC/DocNum:
Parcel Owner:
Address:null null null null null null

Legal:


NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:9,028

ft
0 185 370 740

N

GUILLEN 3/24/2021



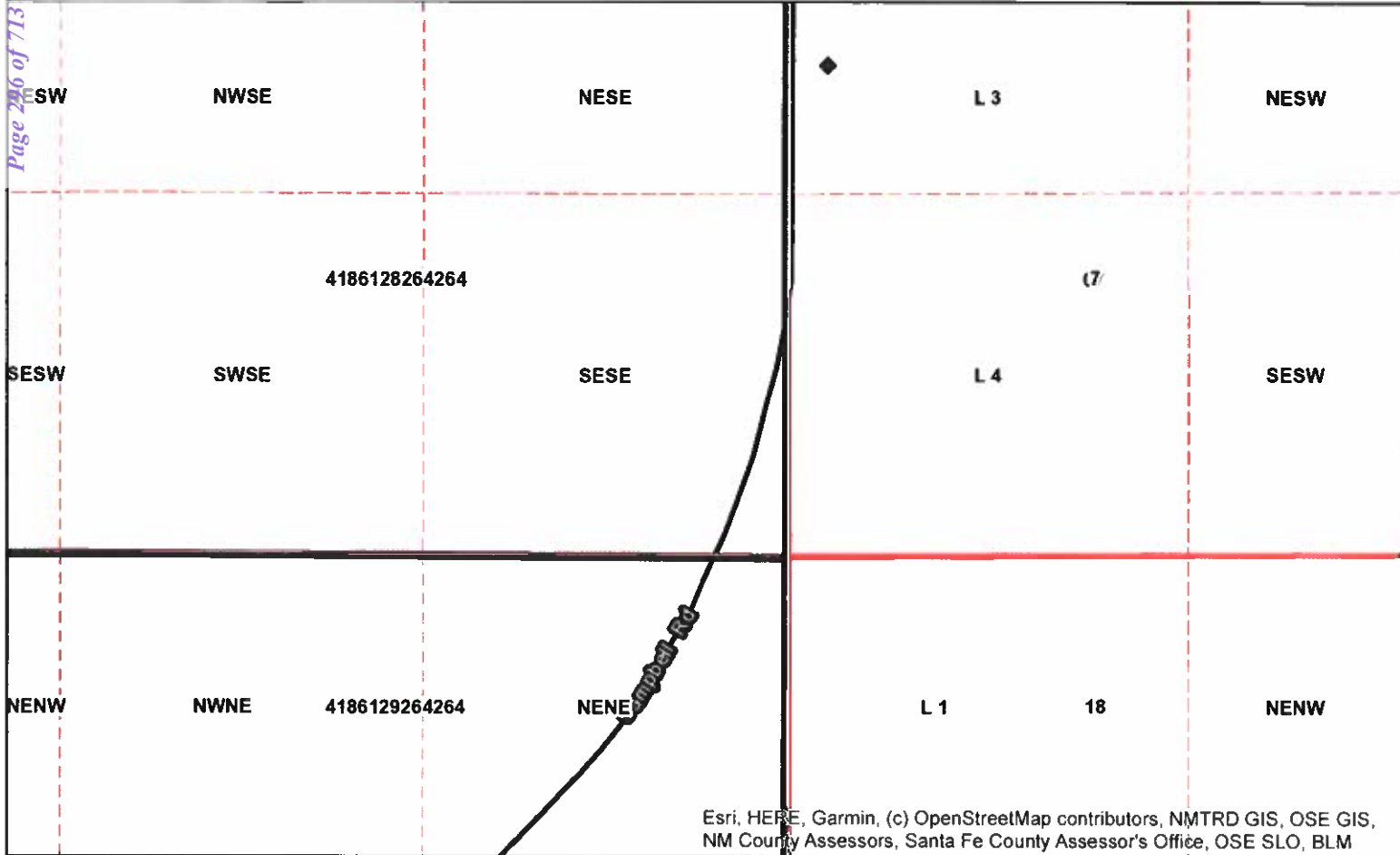
Reasonable efforts have been made by the New Mexico Office of the State Engineer to verify that these maps accurately represent the source data used in their preparation. However, a degree of error is inherent in all maps. All third parties who consult these maps and rely on the information, modifications, additions and omissions are assumed to be their responsibility. The user assumes all liability for any and all errors or omissions. These maps are distributed as is without warranty of any kind.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area:C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS Qtr Sec
locations are calculated and are only
approximations

POD Information
Owner: EOG/GHD
File Number: C-4144 POD22
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...



Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, OSE SLO, BLM

Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620145.396

Northing 3585899.348

State Plane - NAD 83 (ft) - Zone E

Easting 729875.761

Northing 511126.999

Degrees Minutes Seconds

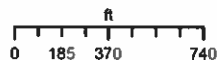
Latitude 32 : 24 : 13.250000

Longitude -103 : 43 : 20.800000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028



GUILLEN

3/24/2021



Response where it is based upon the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the land data used in their preparation. However, a degree of error is inherent in all maps, and these maps may contain errors and omissions in scale, resolution, vector plan, positional accuracy, development methodology, interpretation of source data, and other circumstances. These maps are distributed as a virtual reality of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD23

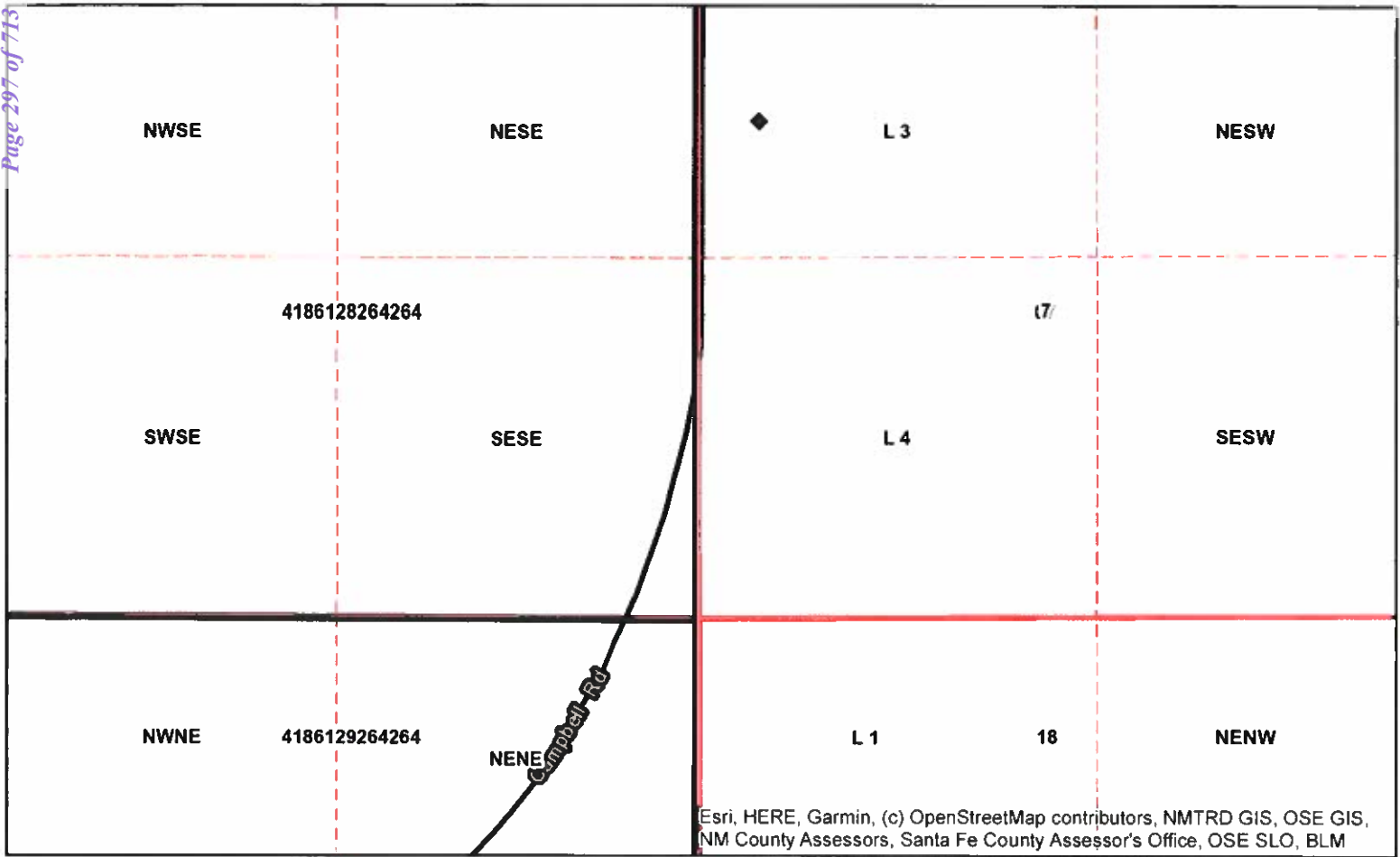
POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSS Township
- PLSS First Div...
- PLSS Second...

**Coordinates****UTM - NAD 83 (m) - Zone 13**

Easting 620169.052

Northing 3585909.486

State Plane - NAD 83 (f) - Zone E

Easting 729953.591

Northing 511159.782

Degrees Minutes Seconds

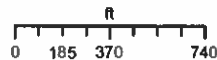
Latitude 32 : 24 : 13.570000

Longitude -103 : 43 : 19.890000

Location pulled from Coordinate Search

**NEW MEXICO OFFICE
OF THE
STATE ENGINEER**

1:9,028



N



GUILLEN

3/24/2021



Readme: This map is a work product of the New Mexico Office of the State Engineer (OSE) to be used for informational purposes only. It is not intended to be used for legal or regulatory purposes. The OSE does not warrant the accuracy, completeness, or timeliness of the information contained in this map. The OSE is not responsible for any errors or omissions in this map. The OSE is not responsible for any damages or liabilities arising from the use of this map. These maps are distributed as a public service and are not intended to be used for legal or regulatory purposes.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD 24

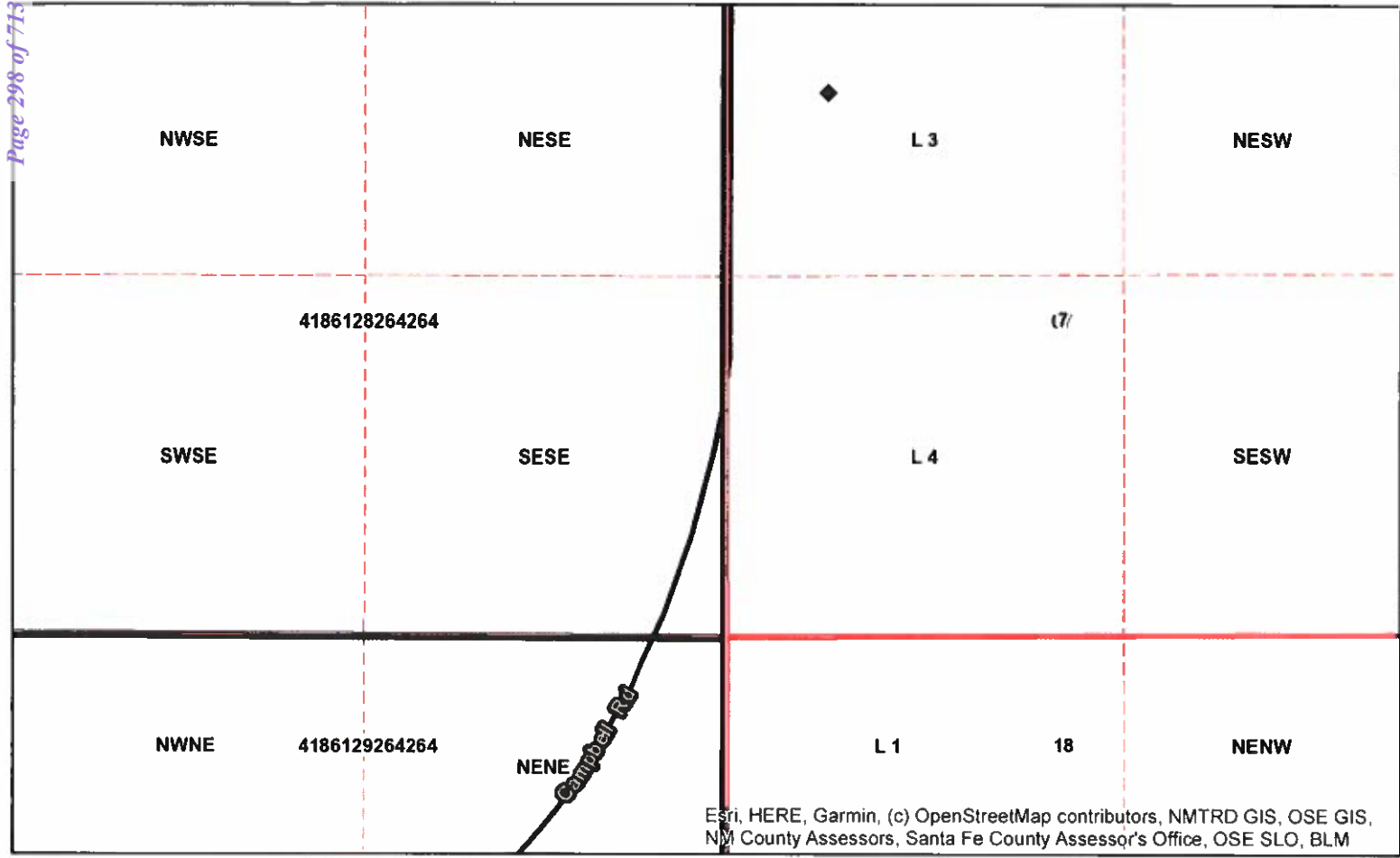
POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

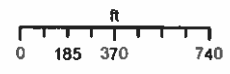


Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, OSE SLO, BLM

Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620214.148
Northing 3585962.076
State Plane - NAD 83 (f) - Zone E
Easting 730102.642
Northing 511331.424
Degrees Minutes Seconds
Latitude 32 : 24 : 15.260000
Longitude -103 : 43 : 18.140000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:9,028



GUILLEN 3/24/2021



Reproduction of this map is prohibited by the New Mexico Office of the State Engineer (OSE) without the written permission of the OSE. The OSE is not responsible for any errors or omissions in this map. The OSE is not responsible for any damages or liabilities arising from the use of this map. The OSE is not responsible for any damages or liabilities arising from the use of this map. The OSE is not responsible for any damages or liabilities arising from the use of this map.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SE NW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec
locations are calculated and are only
approximations

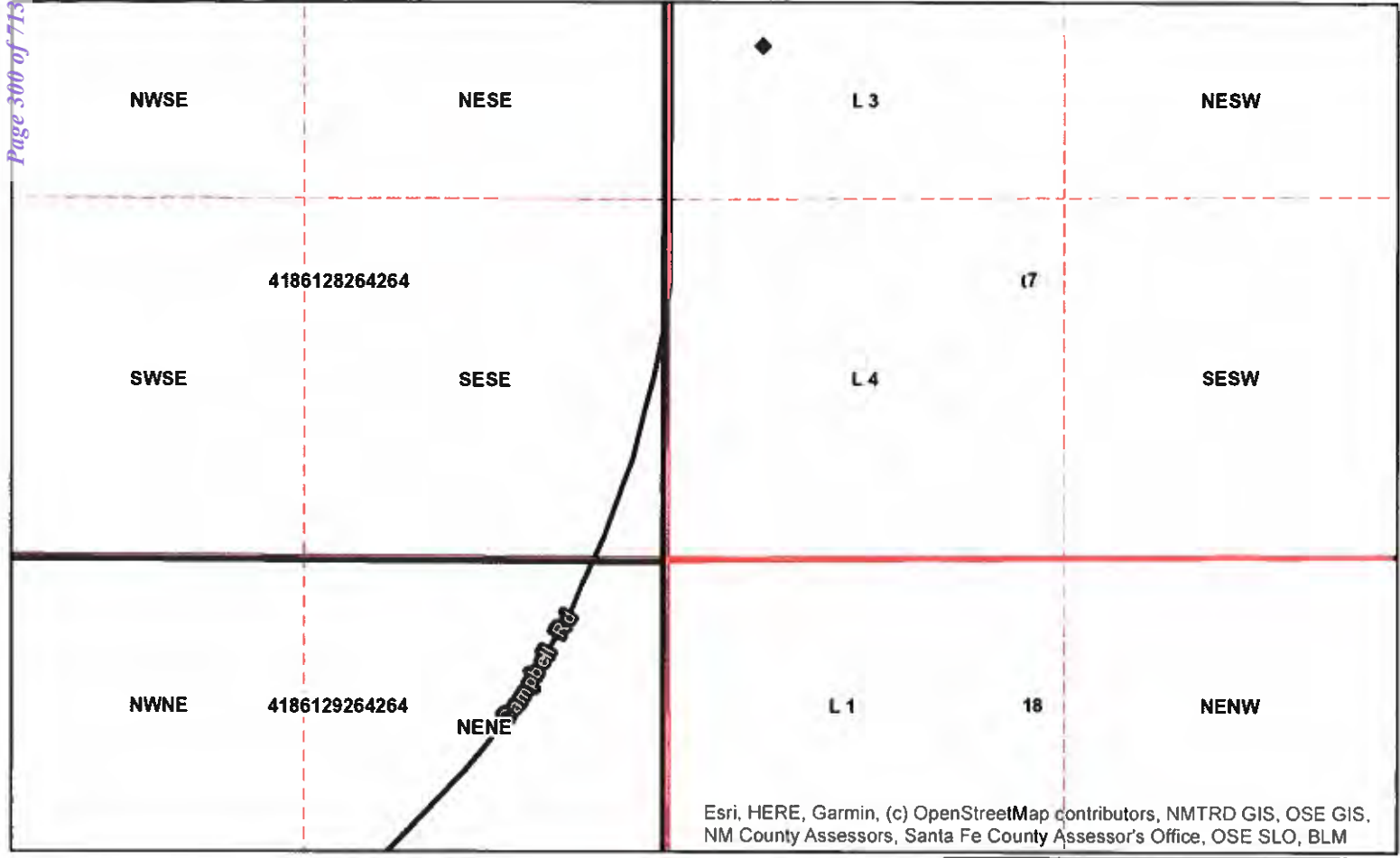
Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4122 POD25
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSS Township
- PLSS First Div...
- PLSS Second...



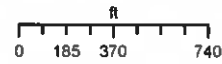


Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, OSE SLO, BLM

Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620207.757
Northing 3585928.428
State Plane - NAD 83 (f) - Zone E
Easting 730080.982
Northing 511221.146
Degrees Minutes Seconds
Latitude 32 : 24 : 14.170000
Longitude -103 : 43 : 18.400000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:9,028



N



GUILLEN

3/24/2021



Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation, however, a degree of error is involved in all maps, and there may be errors in the data. The OSE is not responsible for any errors in the data, and the user assumes all liability for any use of the data. These maps are distributed as a public service and are not a warranty of any kind.

Spatial Information

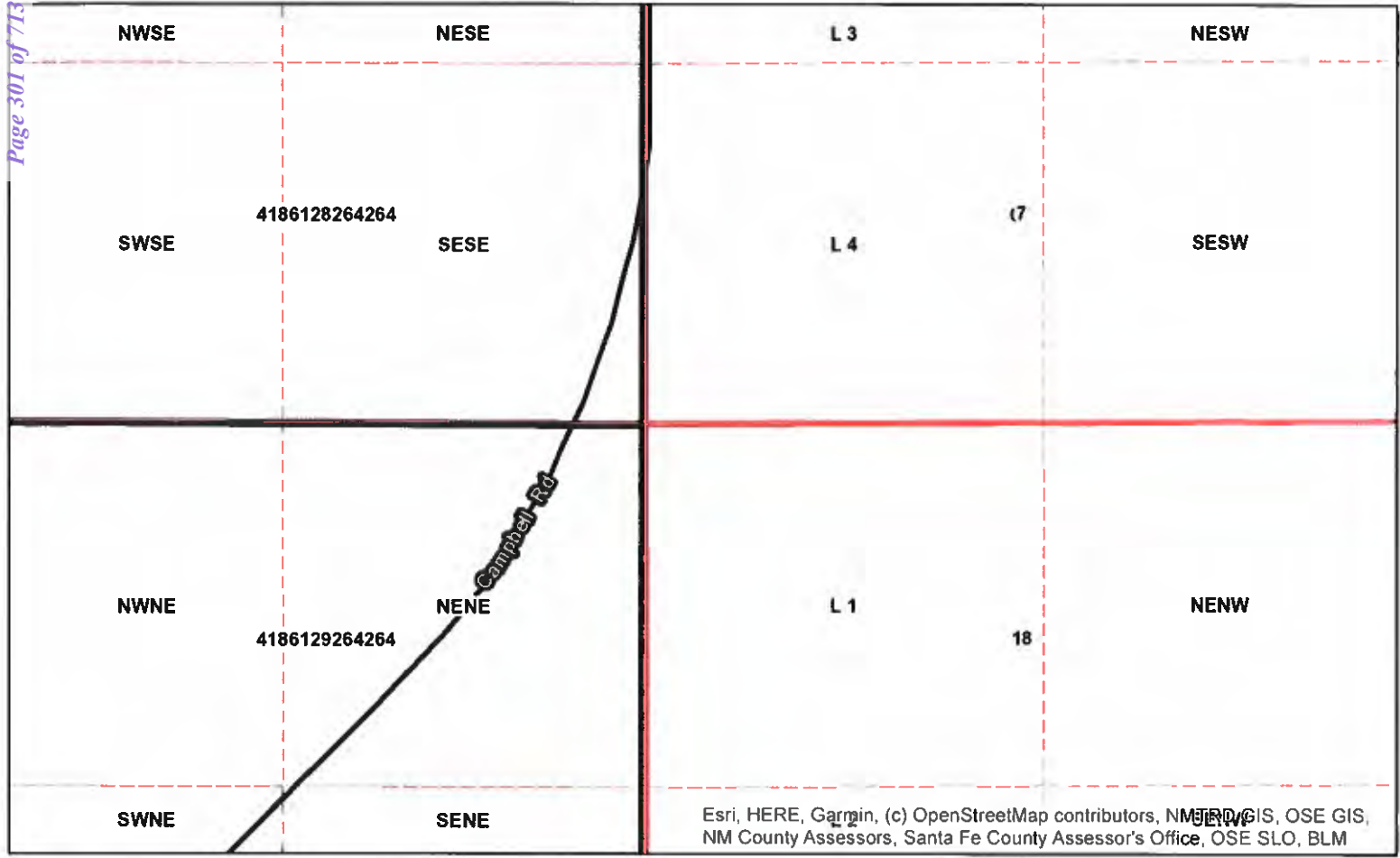
County: Lea
Groundwater Basin: Carlsbad
Abstract Area:C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
NE SW NW SW Qtr of Sec 7 of 22S 32E
Derived from Projected PLSS- Qtr Sec
locations are calculated and are only
approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address:null null null null null null
Legal:

POD Information

Owner: EOG/GHD
File Number: C-4144 POD27
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...



Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620202.253
Northing 3585908.035
State Plane - NAD 83 (f) - Zone E
Easting 730062.503
Northing 511154.341
Degrees Minutes Seconds
Latitude 32 : 24 : 13.510000
Longitude -103 : 43 : 18.620000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:9,028

0 185 370 740

N

GUILLEN 3/24/2021

Office of the State Engineer
Interstate Stream Commission

Responsible for the data used in this map is the New Mexico Office of the State Engineer (OSE). It is to be noted that these maps are not intended to be used as a legal document, but rather as a guide. The OSE does not warrant the accuracy of the data used in this map, nor does it warrant the accuracy of the data used in this map. The OSE does not warrant the accuracy of the data used in this map, nor does it warrant the accuracy of the data used in this map. These maps are distributed "as is" without warranty of any kind.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
NW SW NW SW Qtr of Sec 7 of 22S 32E
Derived from Projected PLSS- Qtr Sec
locations are calculated and are only
approximations

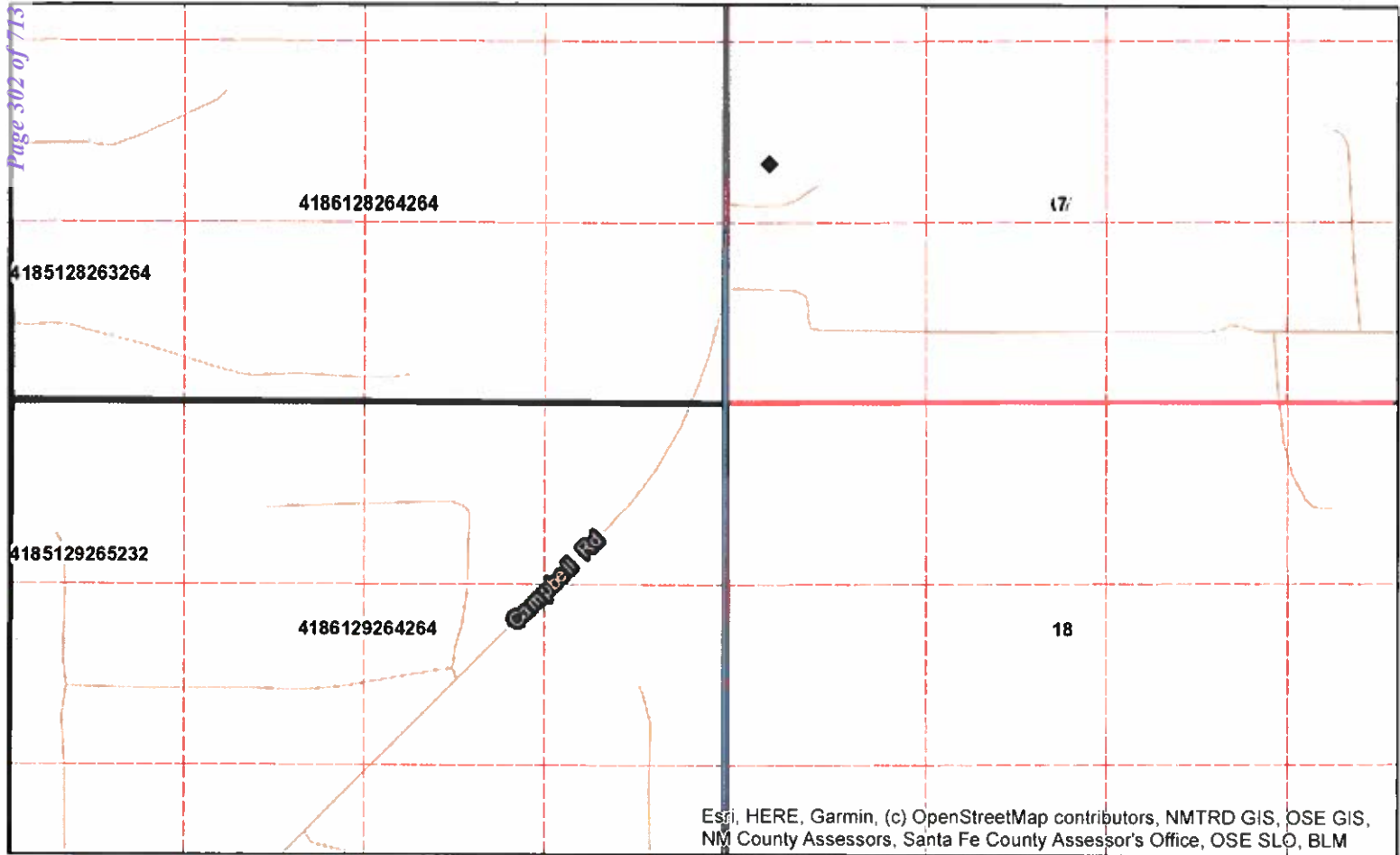
Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null
Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD28
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

Received by OCD: 2/28/2022 3:08:14 PM

Released to Imaging: 5/2/2022 3:37:29 PM

☐ Eddy County Parcels 2020
☐ Lea County Parcels 2020
☐ Sections
☐ BLM Land Grant
☐ PLSS Township
☐ PLSS First Div...
☐ PLSS Second...



Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, OSE SLO, BLM

Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620196.468

Northing 3585889.178

State Plane - NAD 83 (f) - Zone E

Easting 730043.138

Northing 511092.585

Degrees Minutes Seconds

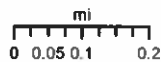
Latitude 32 : 24 : 12.900000

Longitude -103 : 43 : 18.850000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056



GUILLEN

3/24/2021



Readers should be aware that the New Mexico Office of the State Engineer (OSE) does not verify the accuracy of the data used in this report. The OSE is not responsible for any errors or omissions in the data. The OSE is not responsible for any errors or omissions in the data. The OSE is not responsible for any errors or omissions in the data.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD29

POD Status: NoData

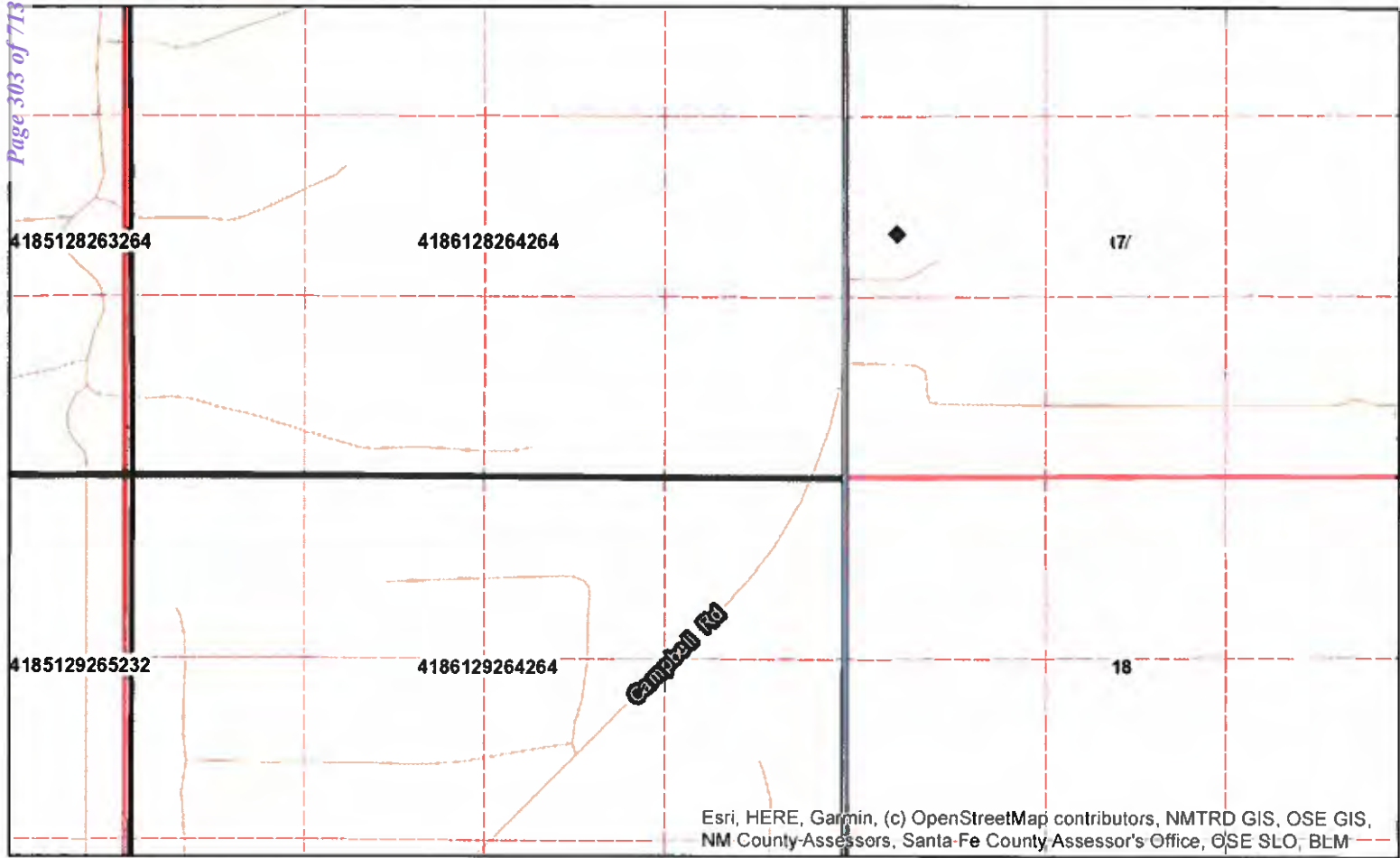
Permit Status: NoData

Permit Use: NoData

Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- Sections

- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

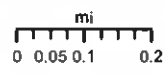


Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County-Assessors, Santa Fe County Assessor's Office, OSE SLO, BLM

Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620215.683
Northing 3585899.264
State Plane - NAD 83 (f) - Zone E
Easting 730106.393
Northing 511125.285
Degrees Minutes Seconds
Latitude 32 : 24 : 13.220000
Longitude -103 : 43 : 18.110000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:18,056



GUILLEN

3/24/2021



Response efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately integrate the source data used in their production; however, a degree of error is inherent in all maps, and these maps may contain omissions and errors in state, revision, modification, issuance, accuracy, description and methodology. Users are cautioned that these maps are distributed as a "best effort" and are not guaranteed.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant: Not in Land Grant
Restrictions: NA
PLSS Description
NE SW NW SW Qtr of Sec 7 of 22S 32E

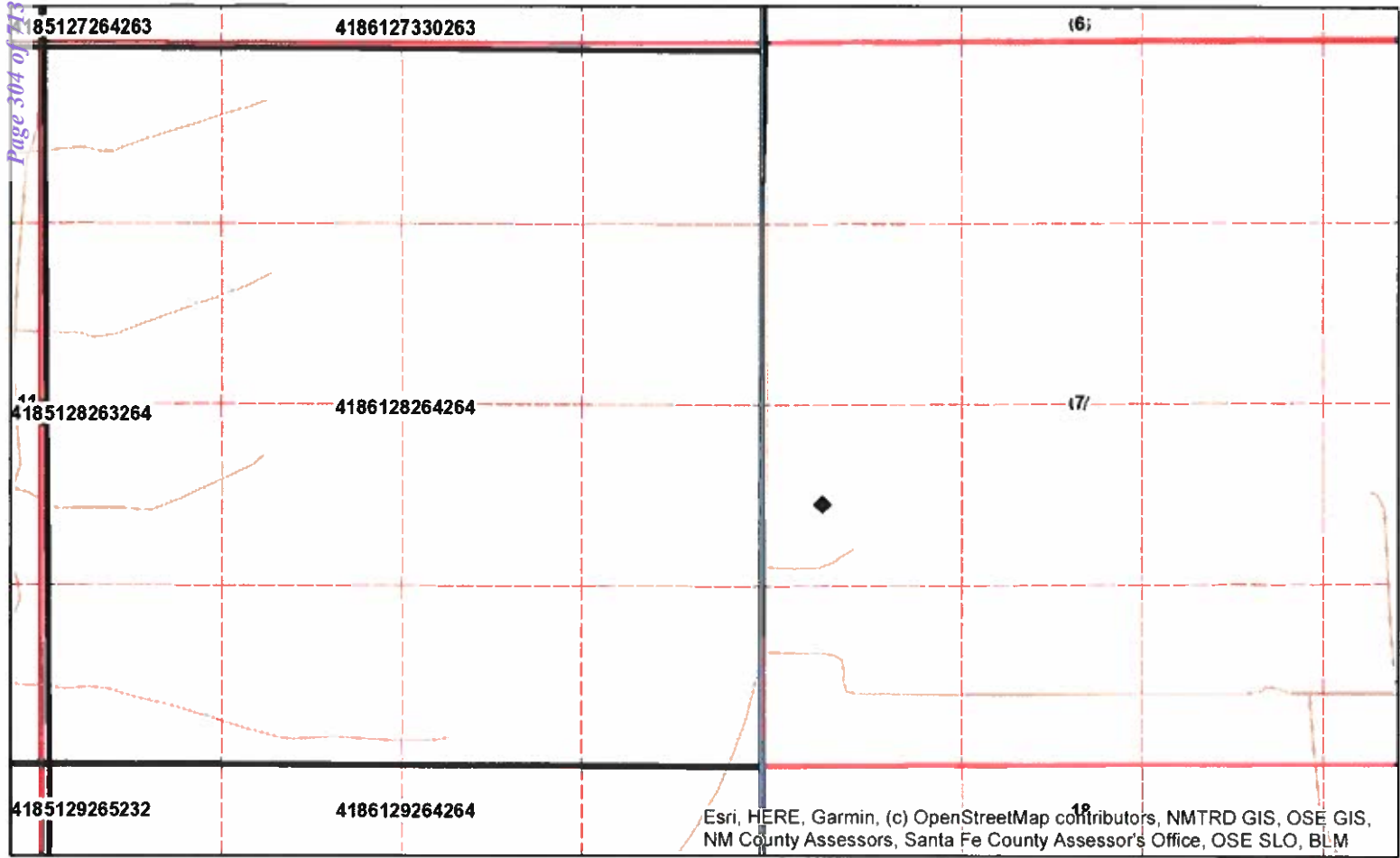
Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD30
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...



Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620233.219
Northing 3585940.436
State Plane - NAD 83 (f) - Zone E
Easting 730164.778
Northing 511260.028
Degrees Minutes Seconds
Latitude 32 : 24 : 14.550000
Longitude -103 : 43 : 17.420000
Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER
1:18,056
mi
0 0.05 0.1 0.2
N
GUILLEN 3/24/2021

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps and other information represent the source data used in the preparation of these maps. However, a degree of error is inherent in all maps, and these maps may contain errors and omissions. The OSE does not warrant, represent, or assume any liability for the accuracy, completeness, or reliability of the information contained in these maps. These maps are distributed as "best available information" and are not to be used for any purpose other than the one for which they were prepared.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant: Not in Land Grant
Restrictions: NA
PLSS Description
NE SW NW SW Qtr of Sec 7 of 22S 32E
Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null
Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD31
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...



A horizontal number line with tick marks at 0, 0.05, 0.1, and 0.2. The unit 'mi' is centered above the line.



3/24/2021



Responsible officials have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation; however, a degree of error is inherent in all maps, and these maps may contain misprints and errors in the resolution, registration, position, accuracy, data, equipment, methodology, interpretation of source data and other circumstances.

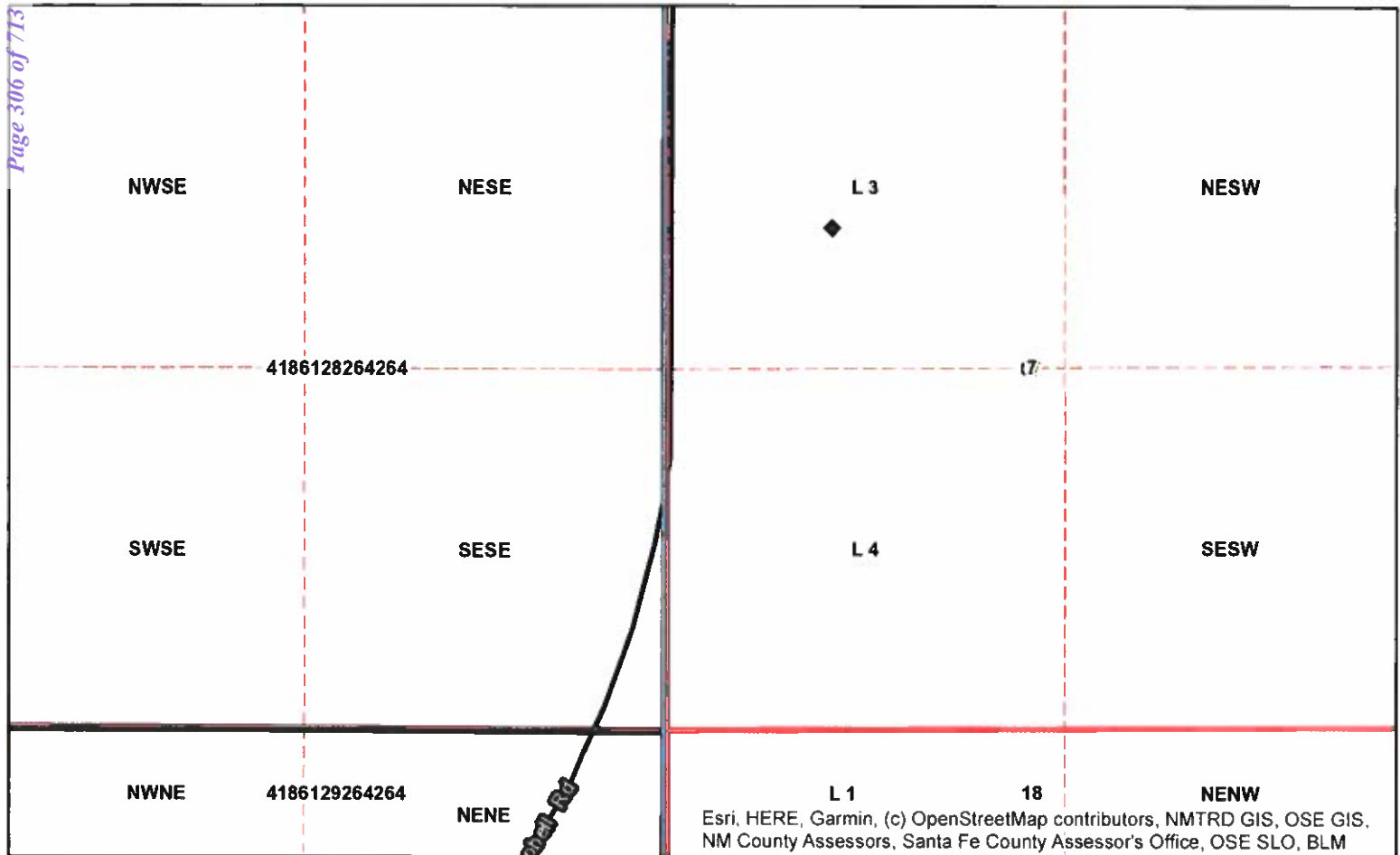
Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Purpose: MON

Location pulled from Coordinate Search

Legal:

PLSSSecond...

**Coordinates****UTM - NAD 83 (m) - Zone 13**

Easting 620285.252

Northing 3585915.496

State Plane - NAD 83 (f) - Zone E

Easting 730335.004

Northing 511177.124

Degrees Minutes Seconds

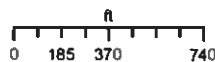
Latitude 32 : 24 : 13.720000

Longitude -103 : 43 : 15.440000

Location pulled from Coordinate Search

**NEW MEXICO OFFICE
OF THE
STATE ENGINEER**

1:9,028



N



GUILLEN

3/24/2021



Responsible parties have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps do not contain any errors. The OSE is not responsible for any errors or omissions in the data used in this map. The OSE is not responsible for any errors or omissions in the data used in this map. The OSE is not responsible for any errors or omissions in the data used in this map.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GIS

File Number: C-4144 POD33

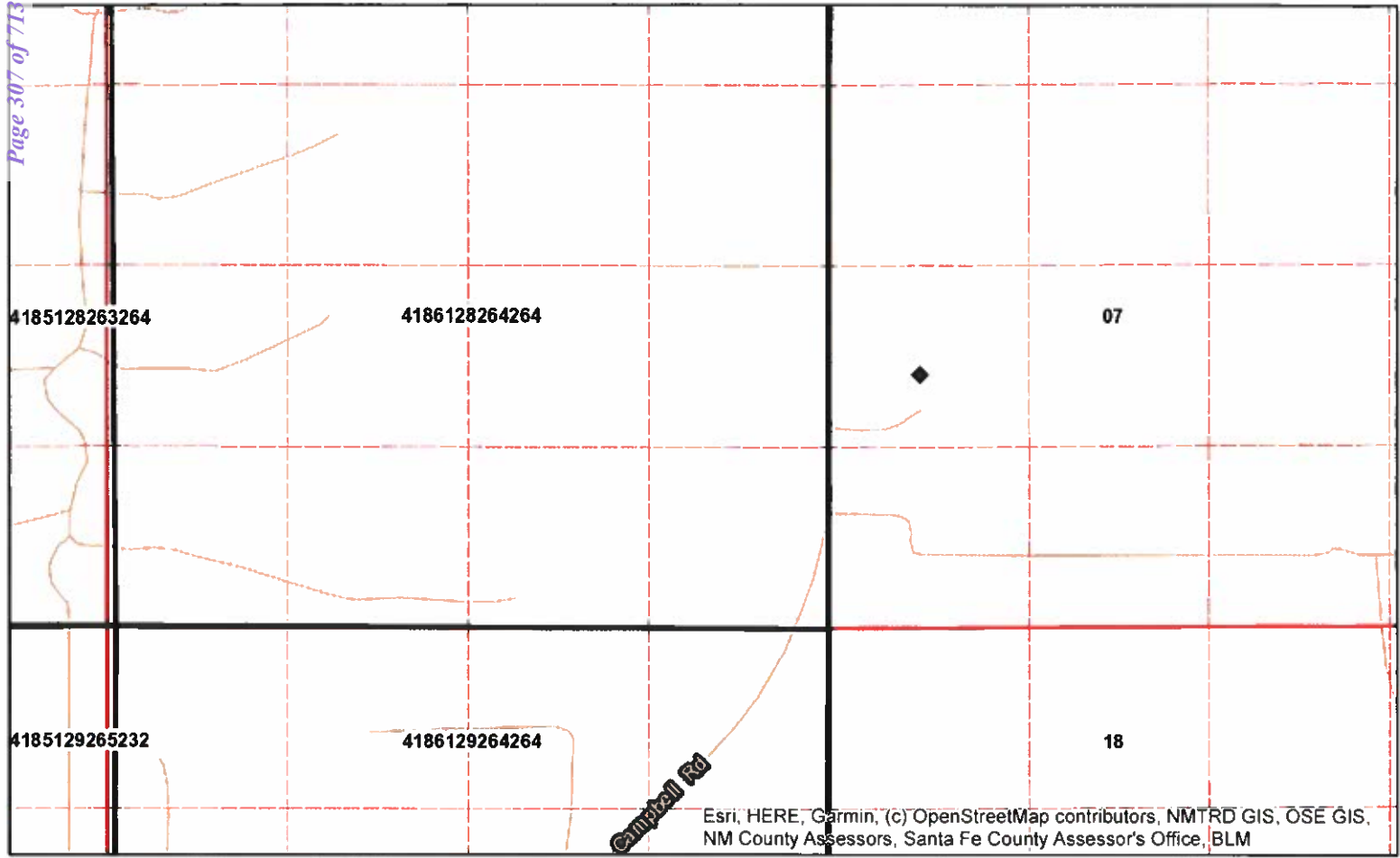
POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...



Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620303.226
Northing 3585920.023
State Plane - NAD 83 (f) - Zone E
Easting 730394.077
Northing 511191.610
Degrees Minutes Seconds
Latitude 32 : 24 : 13.860000
Longitude -103 : 43 : 14.750000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:18,056

mi
0 0.05 0.1 0.2

N

GUILLEN 3/25/2021

Office of the State Engineer
Interstate Stream Commission

Readme: All data have been made by the New Mexico Office of the State Engineer (OSE) as far as possible maps and users interpret the source data used in their presentation, however, a degree of error is inherent in all maps and this map may contain some errors. No warranty is made, no liability is assumed, no responsibility is accepted for any errors or omissions. Information is provided as is, without warranty of any kind.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
NE SW NW SW Qtr of Sec 7 of 22S 32E

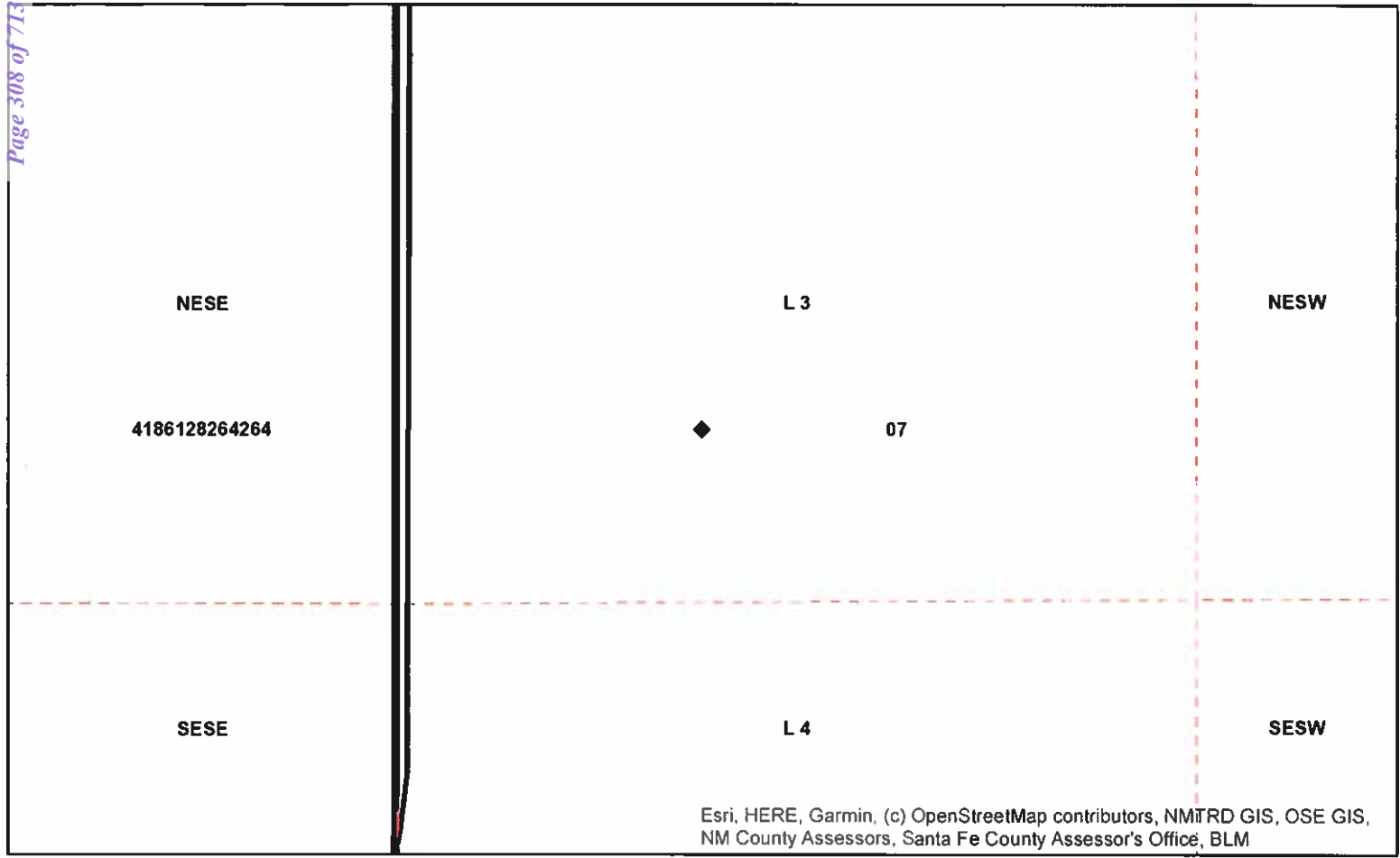
Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD34
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

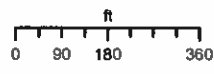


Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMT RD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, BLM

Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620270.034
Northing 3585855.255
State Plane - NAD 83 (f) - Zone E
Easting 730283.837
Northing 510979.766
Degrees Minutes Seconds
Latitude 32 : 24 : 11.770000
Longitude -103 : 43 : 16.050000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:4,514



GUILLEN

3/25/2021



Responsible where he is given made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation. These are a degree of error is inherent in all maps. The State Engineer may conduct a field visit to the site to verify the accuracy of the map. The State Engineer does not warrant the accuracy of the map. The State Engineer is not responsible for any errors or omissions in the map. These maps are prepared as a service to the public and are not to be used for any other purpose.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SE SW NW SW Qtr of Sec 7 of 22S 32E

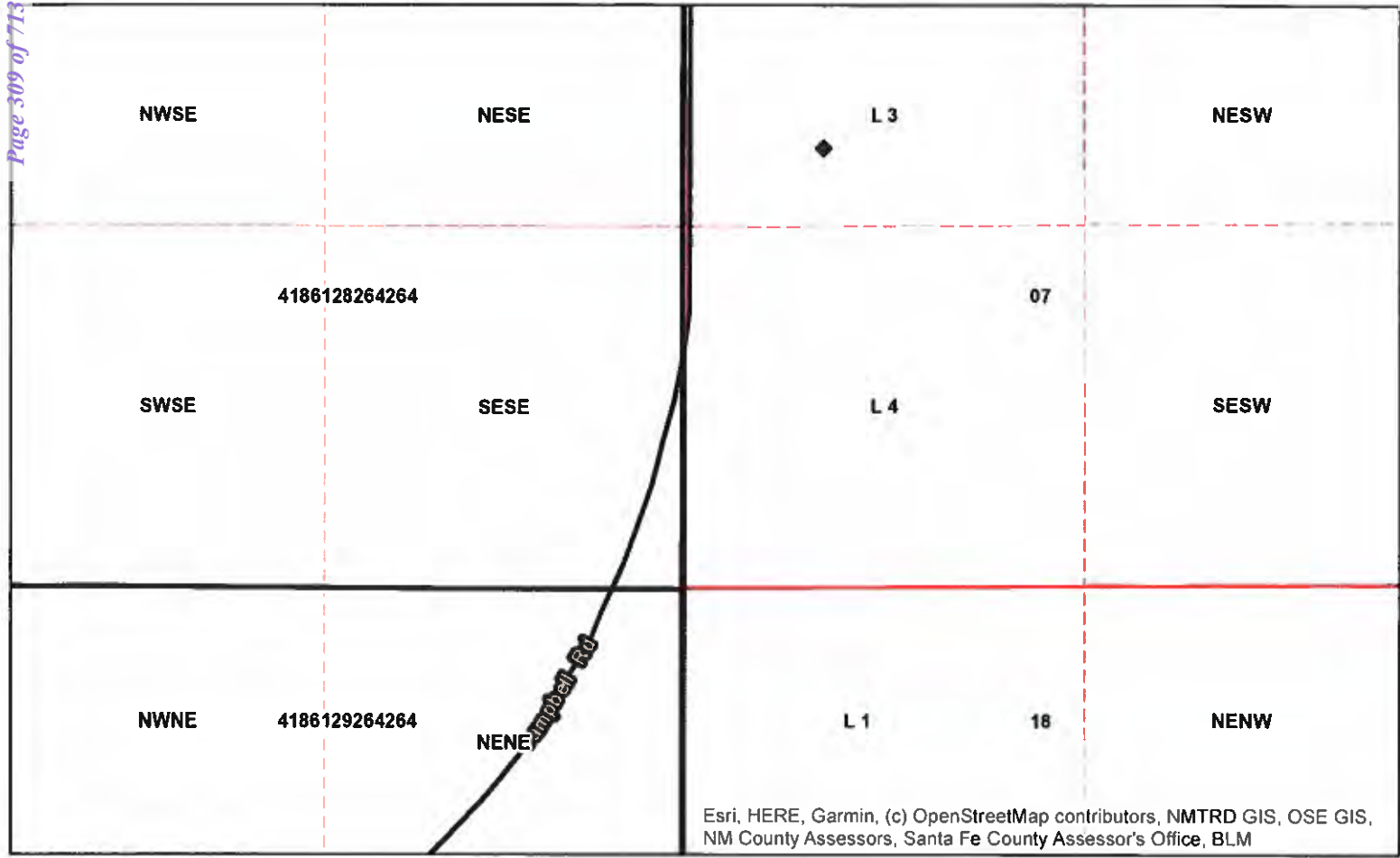
Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD35
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

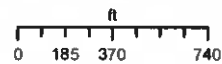


Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, BLM

Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620255.261
Northing 3585845.223
State Plane - NAD 83 (f) - Zone E
Easting 730235.156
Northing 510947.148
Degrees Minutes Seconds
Latitude 32 : 24 : 11.450000
Longitude -103 : 43 : 16.620000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:9,028



GUILLEN

3/25/2021



Responses which have been made by the New Mexico Office of the State Engineer (OSE) to the public's request for information are hereby made available to the public. These responses are provided for informational purposes only and do not constitute an official position of the OSE. The OSE is not responsible for the accuracy or completeness of the information provided. The OSE is not responsible for the accuracy or completeness of the information provided. The OSE is not responsible for the accuracy or completeness of the information provided.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SE SW NW SW Qtr of Sec 7 of 22S 32E

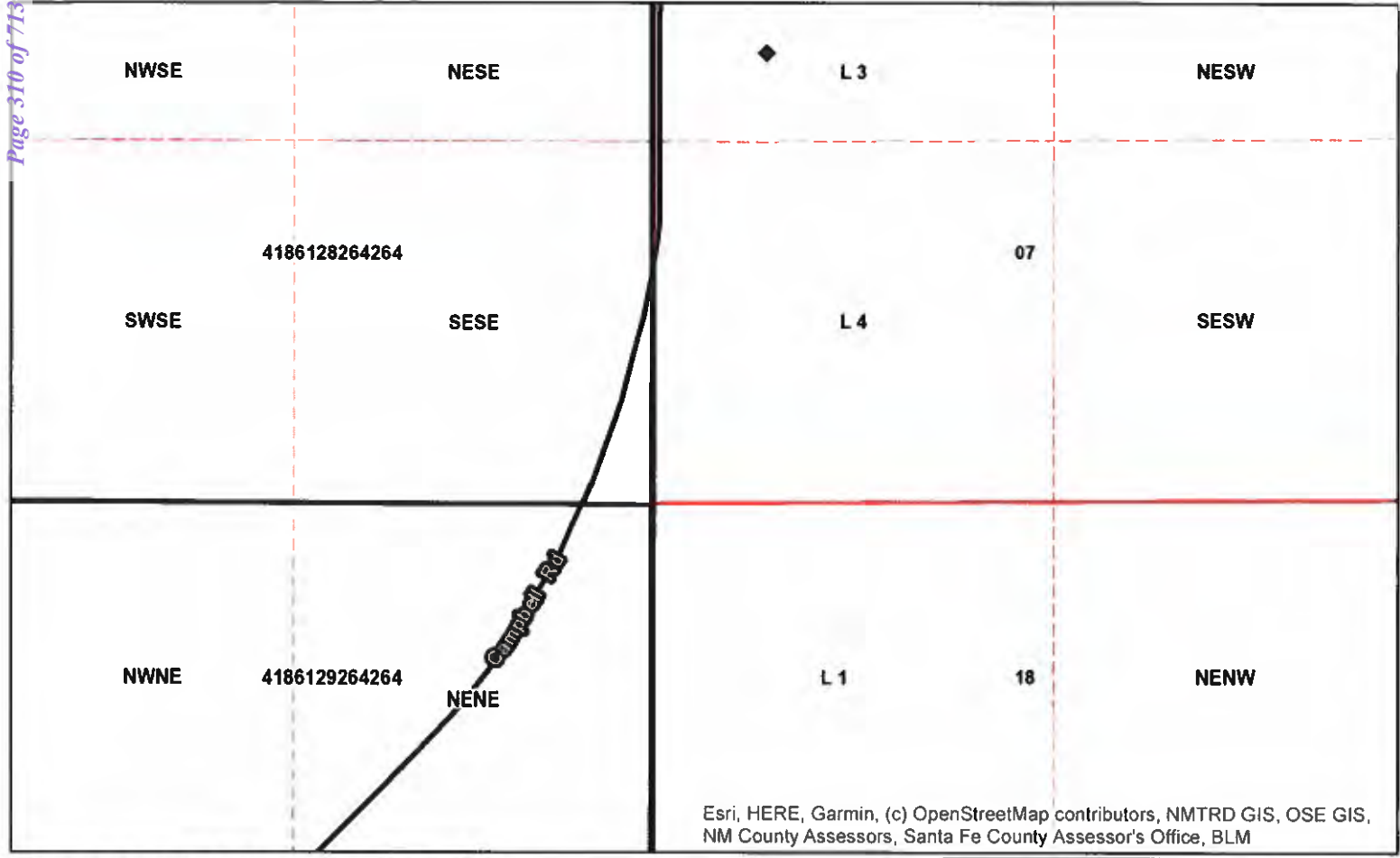
Derived from Projected PLSS- Qtr Sec
locations are calculated and are only
approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: OSE/GHD
File Number: C-4144 POD36
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

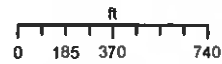


Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, BLM

Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620226.122
Northing 3585856.578
State Plane - NAD 83 (f) - Zone E
Easting 730139.774
Northing 510985.005
Degrees Minutes Seconds
Latitude 32 : 24 : 11.830000
Longitude -103 : 43 : 17.730000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:9,028



GUILLEN

3/25/2021



Reproduction of this map is prohibited by the New Mexico Office of the State Engineer. No part of this map may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the New Mexico Office of the State Engineer.

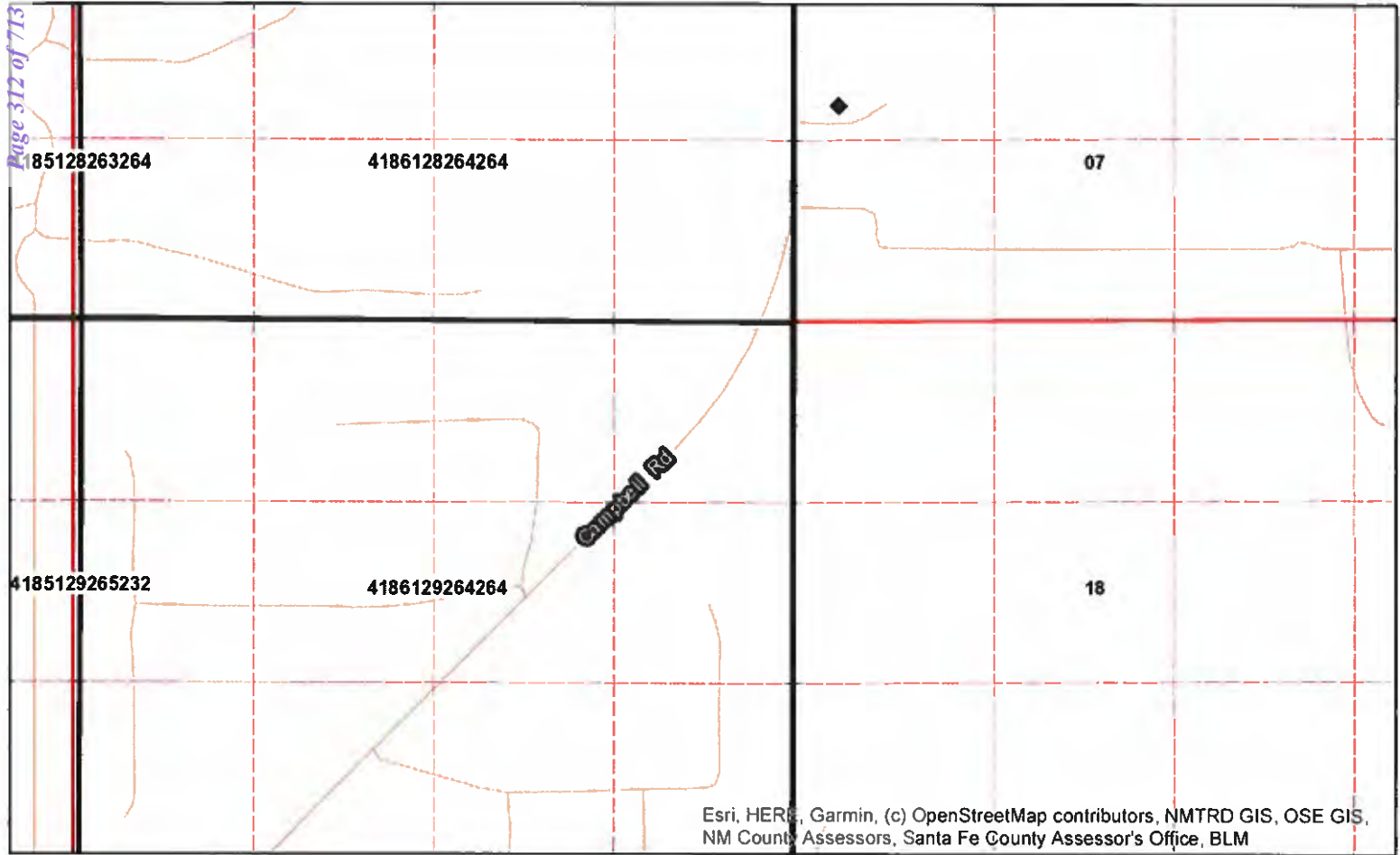
Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec
locations are calculated and are only
approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD37
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON



Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, BLM

Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620200.240

Northing 3585835.941

State Plane - NAD 83 (f) - Zone E

Easting 730054.425

Northing 510917.817

Degrees Minutes Seconds

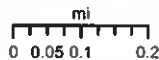
Latitude 32 : 24 : 11.170000

Longitude -103 : 43 : 18.730000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056



N



GUILLEN

3/25/2021



Responsible Parties have been made aware of the New Mexico Office of the State Engineer (OSE) use verify that these map documents reflect the source data used in their preparation. However, a degree of error inherent in all maps and data sets may exist in the data and maps. In order to ensure the accuracy, precision, and reliability of the data and maps, the OSE has implemented a quality assurance process. These maps are distributed as is without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

SW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD39

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON



Coord Search Location



Eddy County Parcels 2020



Lea County Parcels 2020



BLM Land Grant



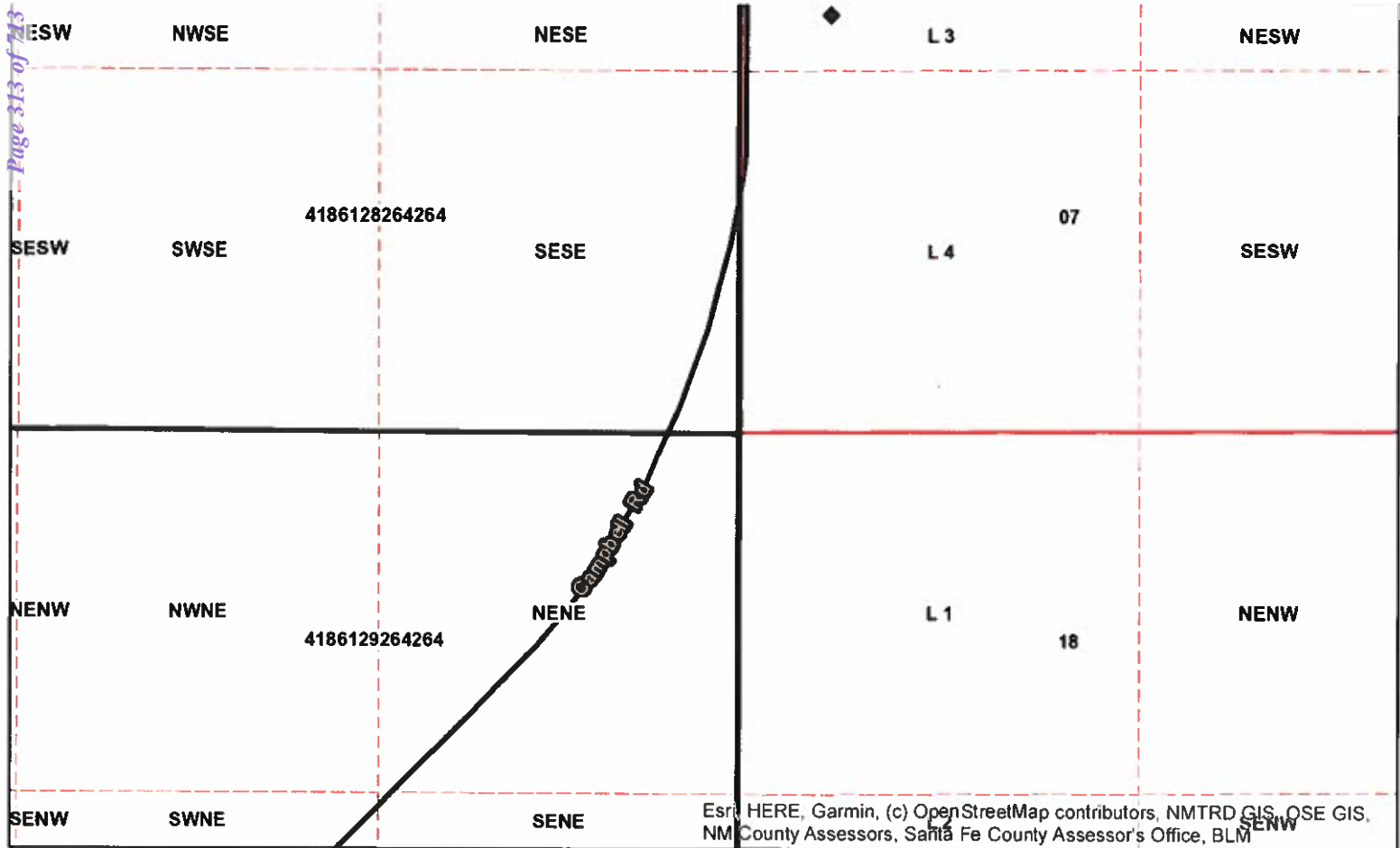
PLSSTownship



PLSSFirstDiv...



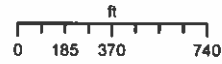
PLSSSecond...



Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620200.947
Northing 3585820.550
State Plane - NAD 83 (f) - Zone E
Easting 730056.429
Northing 510867.299
Degrees Minutes Seconds
Latitude 32 : 24 : 10.670000
Longitude -103 : 43 : 18.710000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:9,028



GUILLEN

3/25/2021



Responsible efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation. However, a degree of error is inherent in all maps, and the OSE does not warrant the accuracy or reliability of the information shown on these maps. Occasional accuracy improvements and corrections may be made without notice. These maps are distributed "as is" without warranty of any kind.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SW SW NW SW Qtr of Sec 7 of 22S 32E

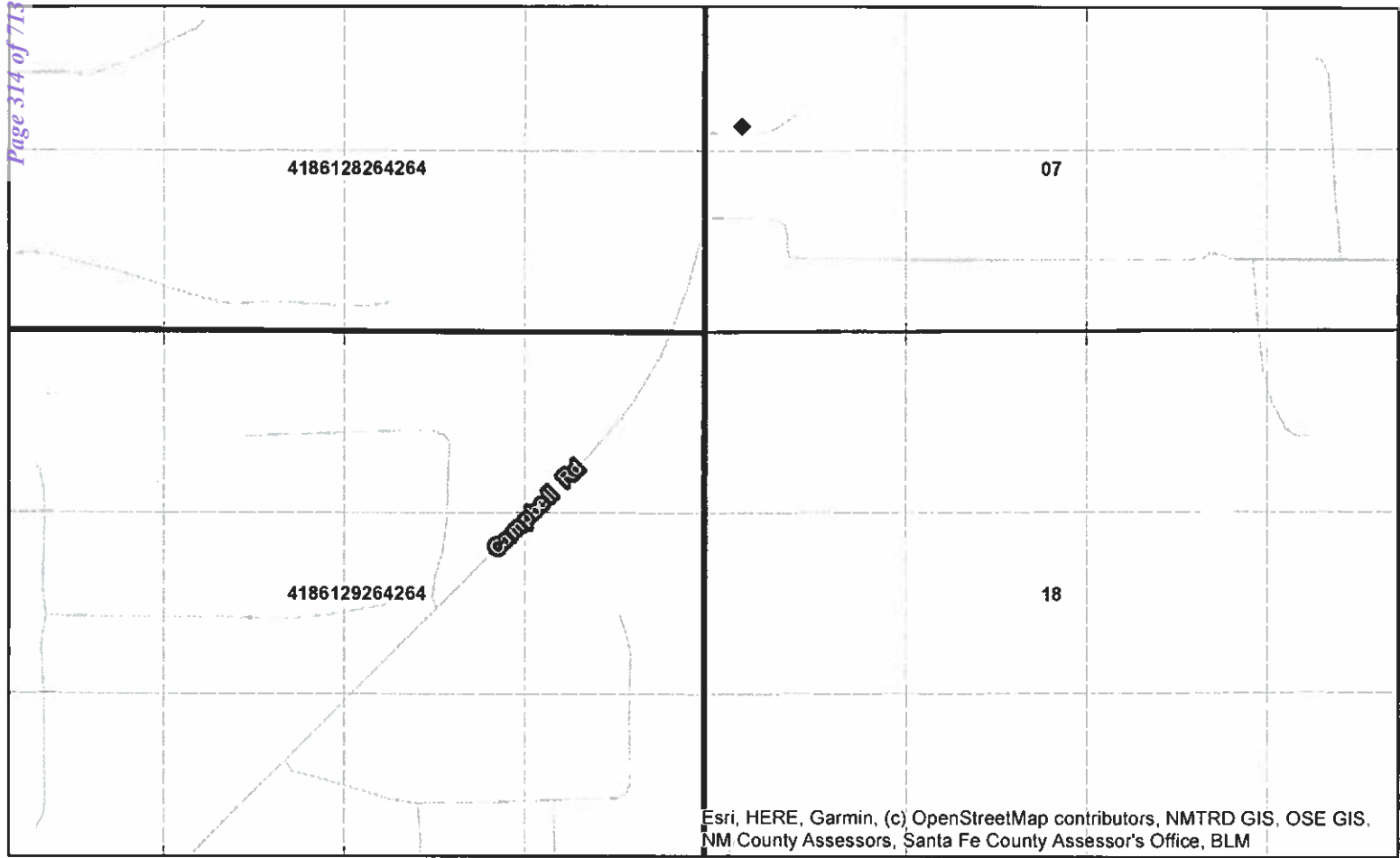
Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD40
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSS Township
- PLSS First Div...
- PLSS Second...

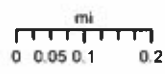


Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, BLM

Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620181.453
Northing 3585812.001
State Plane - NAD 83 (f) - Zone E
Easting 729992.286
Northing 510839.647
Degrees Minutes Seconds
Latitude 32 : 24 : 10.400000
Longitude -103 : 43 : 19.460000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:18,056



GUILLEN

3/25/2021



Information presented is derived from the best available information as of the date of publication. The State Engineer and the Interstate Stream Commission do not warrant the accuracy, completeness, or reliability of the information. The user assumes all liability for any errors or omissions. The information is provided for informational purposes only and should not be used for legal or other purposes.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SW SW NW SW Qtr of Sec 7 of 22S 32E

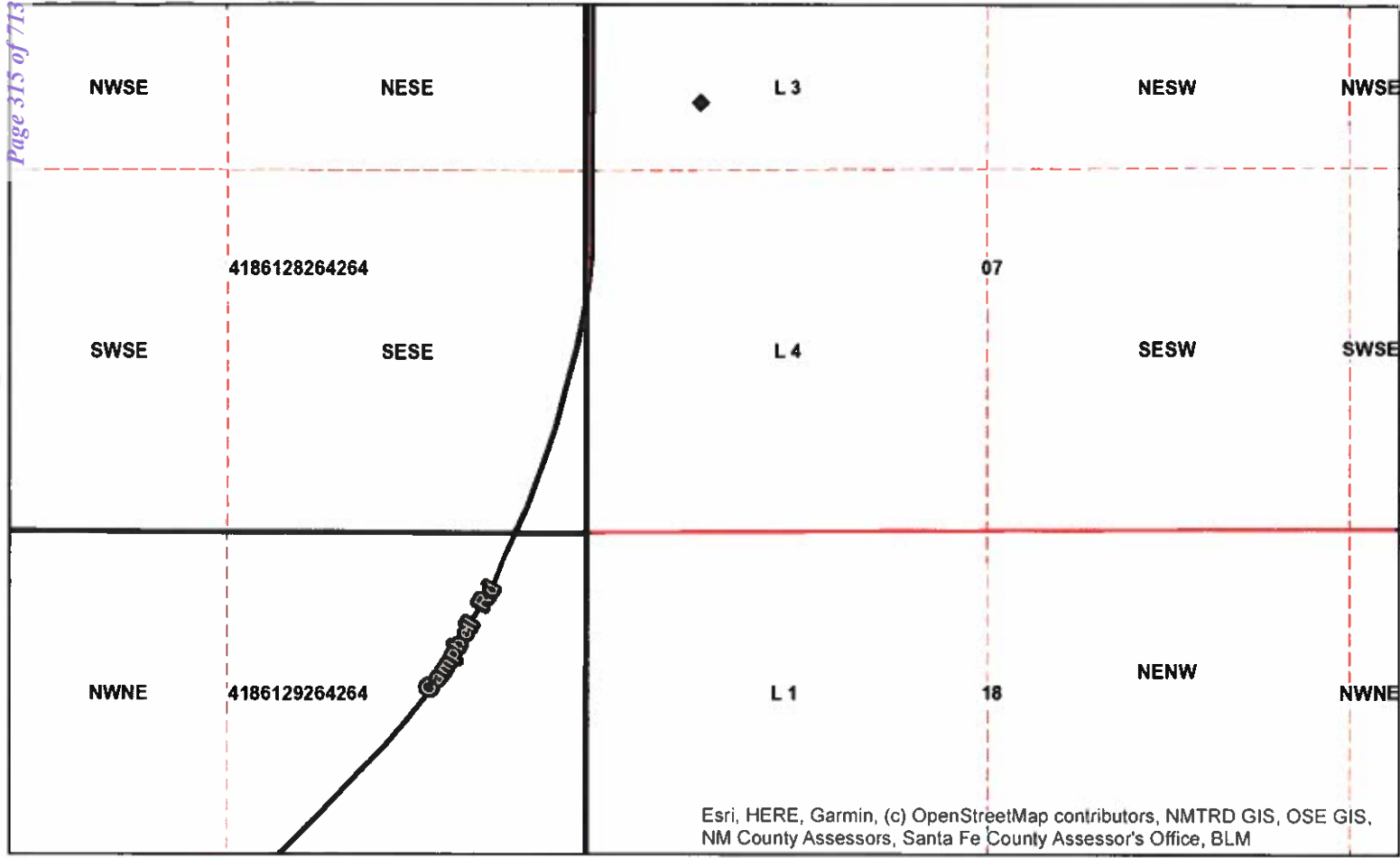
Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD41
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- ☒ Coord Search Location
- ☐ Eddy County Parcels 2020
- ☐ Lea County Parcels 2020
- ☐ BLM Land Grant
- ☐ PLSSTownship
- ☐ PLSSFirstDiv...
- ☐ PLSSSecond...

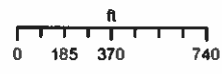


Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, BLM

Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620227.440
Northing 3585833.802
State Plane - NAD 83 (f) - Zone E
Easting 730143.632
Northing 510910.243
Degrees Minutes Seconds
Latitude 32 : 24 : 11.090000
Longitude -103 : 43 : 17.690000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:9,028



GUILLEN

3/25/2021



Available efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation, however, a degree of error is inherent in all maps, and these maps may contain errors and omissions. The OSE does not warrant, represent, or assume any responsibility for the accuracy, completeness, or timeliness of the information provided. These maps are distributed as is, without warranty of any kind.

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SE SW NW SW Qtr of Sec 7 of 22S 32E

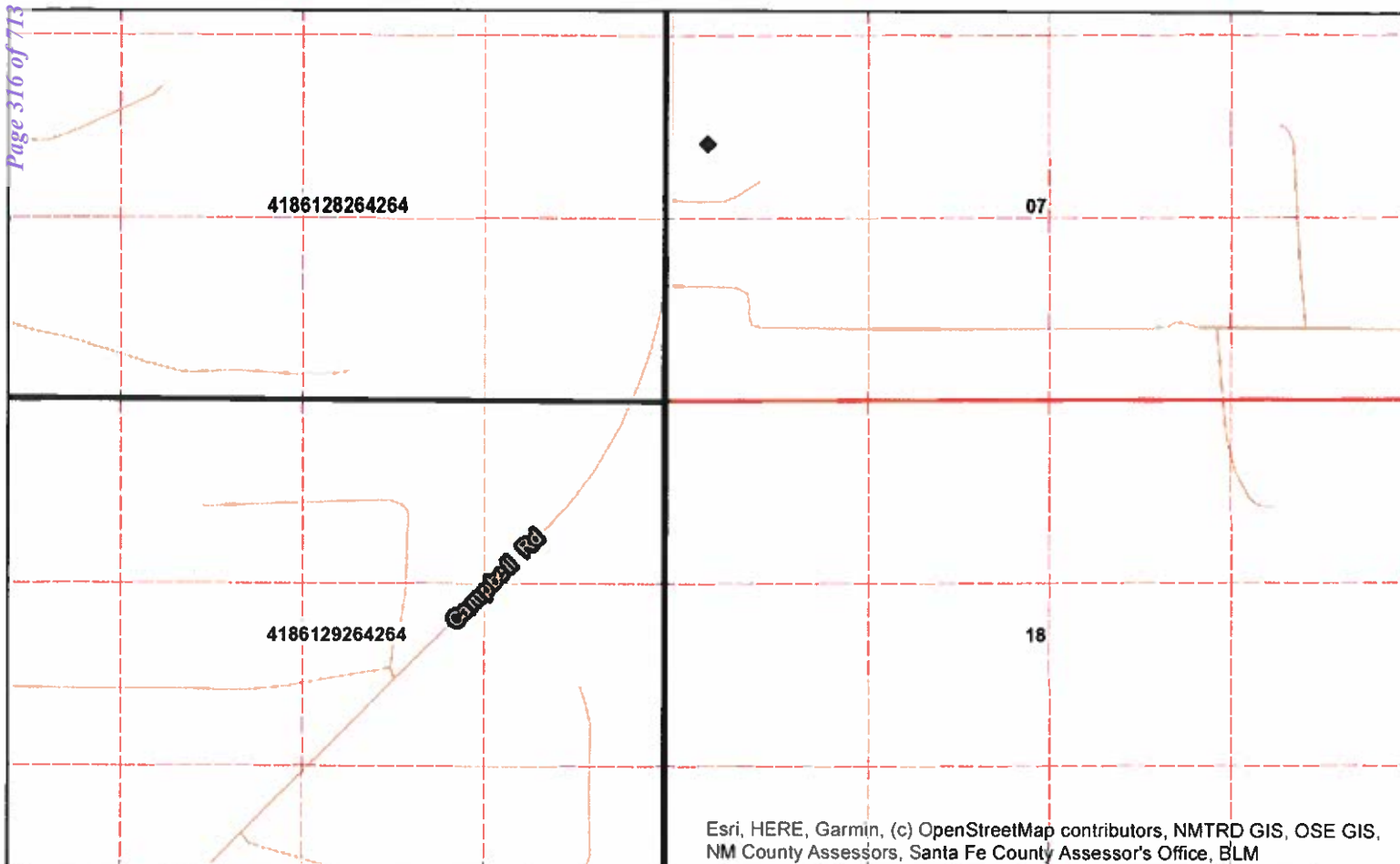
Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD42
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

**Coordinates****UTM - NAD 83 (m) - Zone 13**

Easting 620190.323

Northing 3585922.368

State Plane - NAD 83 (f) - Zone E

Easting 730023.653

Northing 511201.617

Degrees Minutes Seconds

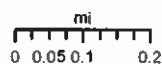
Latitude 32 : 24 : 13.980000

Longitude -103 : 43 : 19.070000

Location pulled from Coordinate Search

**NEW MEXICO OFFICE
OF THE
STATE ENGINEER**

1:18,056



GUILLEN

3/25/2021



Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation. However, it is possible that there are errors in all maps, and these maps may contain errors that are not in the source data. The OSE, its employees, and its contractors do not warrant the accuracy or completeness of these maps. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec.
locations are calculated and are only
approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD43

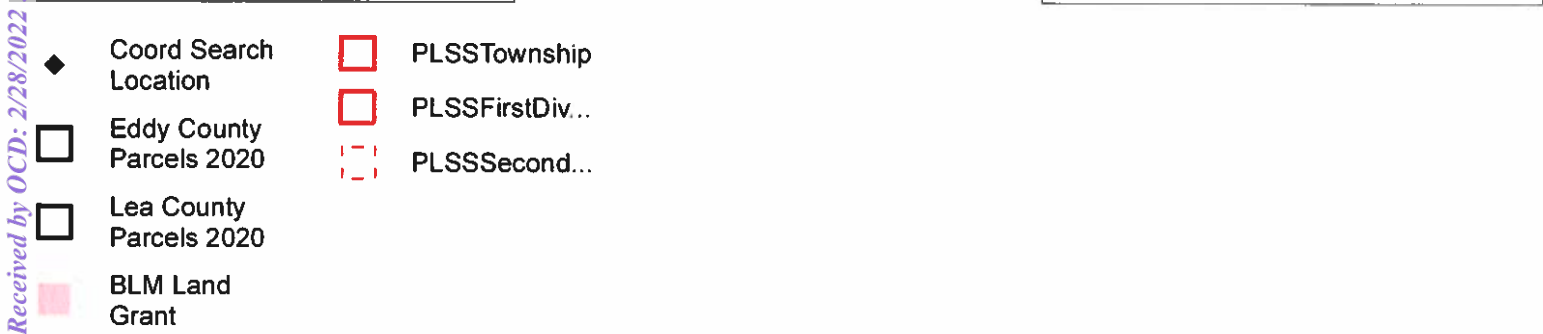
POD Status: NoData

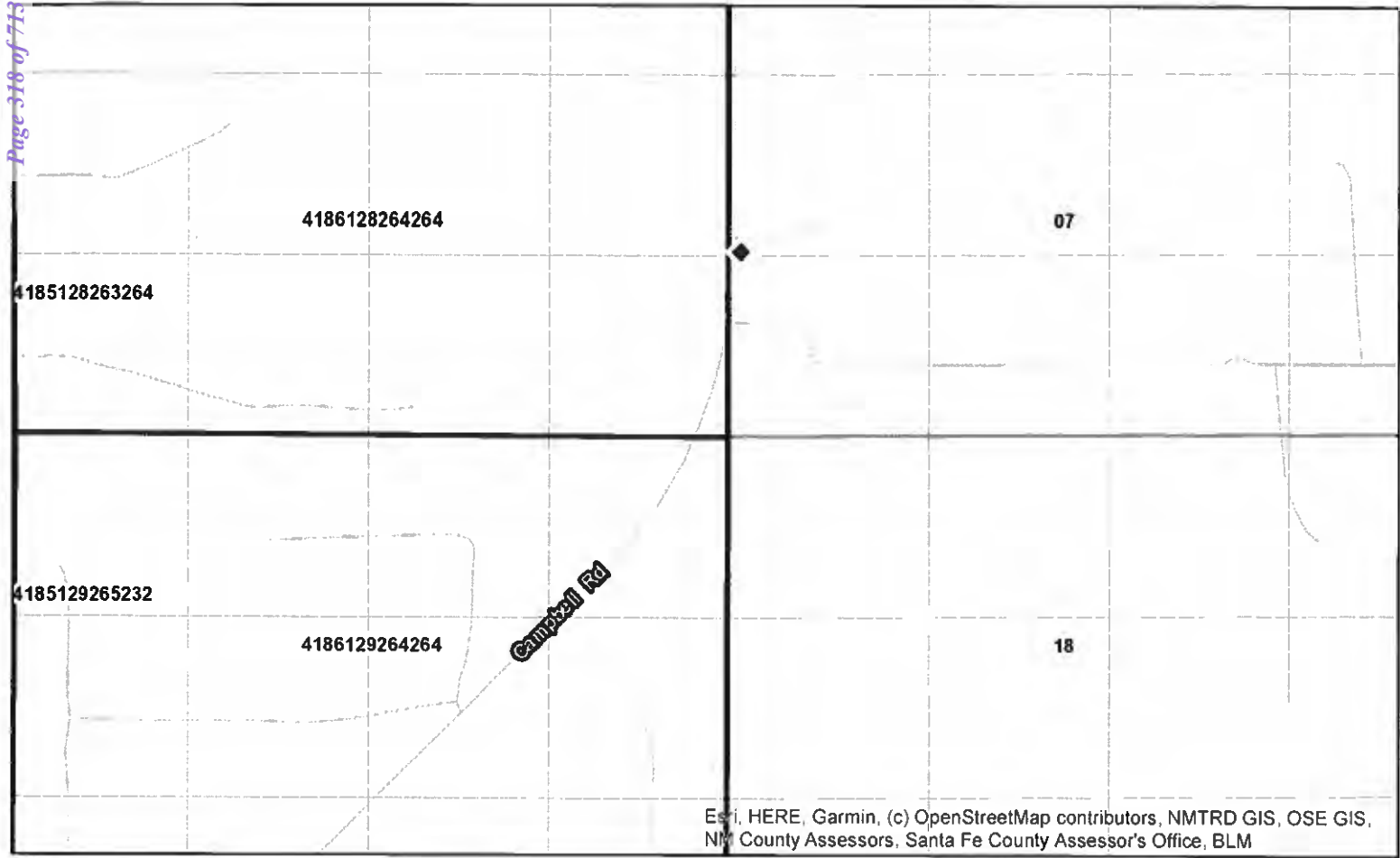
Permit Status: NoData

Permit Use: NoData

Purpose: MON

- ◆ Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...



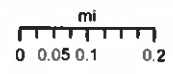


Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, BLM

Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620128.710
Northing 3585765.172
State Plane - NAD 83 (f) - Zone E
Easting 729818.260
Northing 510687.064
Degrees Minutes Seconds
Latitude 32 : 24 : 8.900000
Longitude -103 : 43 : 21.500000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:18,056



GUILLEN

3/25/2021



Office of the State Engineer
Interstate Stream Commission
1000 E. University Avenue, Suite 200
Albuquerque, NM 87106
505.241.2300
www.nmstateengineer.com

Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SW SW NW SW Qtr of Sec 7 of 22S 32E

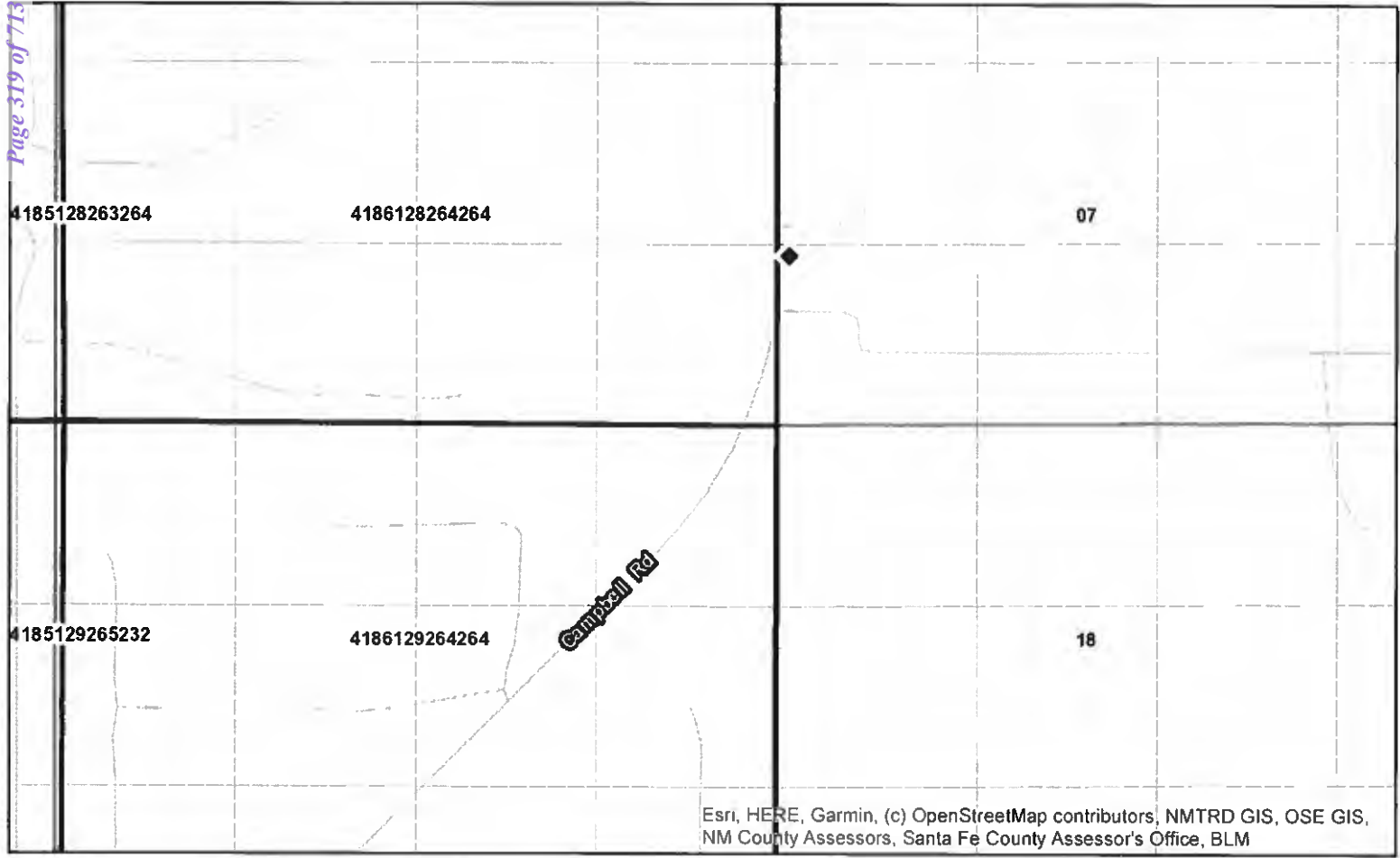
Derived from Projected PLSS- Qtr Sec
locations are calculated and are only
approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD45
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- ☒ Coord Search Location
- ☐ Eddy County Parcels 2020
- ☐ Lea County Parcels 2020
- ☐ BLM Land Grant
- ☐ PLSSTownship
- ☐ PLSSFirstDiv...
- ☐ PLSSSecond...

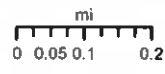


Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, BLM

Coordinates
UTM - NAD 83 (m) - Zone 13
Easting 620128.334
Northing 3585730.980
State Plane - NAD 83 (f) - Zone E
Easting 729816.329
Northing 510574.878
Degrees Minutes Seconds
Latitude 32 : 24 : 7.790000
Longitude -103 : 43 : 21.530000
Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:18,056



GUILLEN

3/25/2021



Spatial Information
County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
NW NW SW SW Qtr of Sec 7 of 22S 32E
Derived from Projected PLSS- Qtr Sec
locations are calculated and are only
approximations

Parcel Information
UPC/DocNum:
Parcel Owner:
Address: null null null null null null

Legal:

POD Information
Owner: EOG/GHD
File Number: C-4144 POD46
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

John R. D Antonio, Jr., P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 690620
File Nbr: C 04144

Mar. 25, 2021

ALAN BRANDON
GHD SERVICES INC.
6121 INDIAN SCHOOL RD NE
ALBUQUERQUE, NM 87110

Greetings:

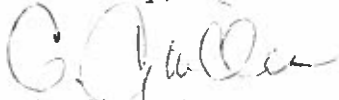
Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,


Claudia Guillen
(575) 622-6521

Enclosure

explore

Appendix E

Laboratory Analytical Reports and Chain-of-Custody Documentation



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1018-1
Laboratory Sample Delivery Group: 11220747
Client Project/Site: Flamenco #1
Revision: 1

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

Attn: Becky Haskell

Authorized for release by:
8/25/2021 4:33:56 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: GHD Services Inc.
Project/Site: Flamenco #1

Laboratory Job ID: 890-1018-1
SDG: 11220747

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	6
Surrogate Summary	36
QC Sample Results	39
QC Association Summary	51
Lab Chronicle	60
Certification Summary	71
Method Summary	72
Sample Summary	73
Chain of Custody	74
Receipt Checklists	85

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Job ID: 890-1018-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

**Job Narrative
890-1018-1**

Receipt

The samples were received on 7/28/2021 11:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 8.4°C

Additional requests

Per Becky Hasketll, please hold samples SB-13-6' and SB-13-15'. Also all samples should be on a three day turn and also correct dates for the following:

SB-17 - 2' 7/28 needs to be 7/26/21

SB 39 - 2' 7/28 needs to be 7/26/21

SB 27 - 2' 7/28 needs to be 7/26/21

SB 13 - 2', 4', 10', 15' needs to be 7/25/21 SB 13 - 18' needs to be 7/25/21

and Please hold the following samples:

- SB-13-6' Sample 33
- SB-13-15' Sample 28
- SB-40-20' Sample 41
- SB-21-15' Sample 45
- SB-21-20' Sample 20
- SB-32-20' Sample 51

Please Correct the sample date for SB-4' to 7/25/21 Sample 32

per Becky Haskell, Please run the following samples on 3 day TAT:

20 - SB-20-15'

46 - SB-21-20'

REVISION

per Becky Haskell there are two samples listed twice on the report, only need to report once for sample ID SB-13-4' and SB-13-10'.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SB-41-2 (890-1018-1), SB-41-4 (890-1018-2), SB-41-10 (890-1018-3), SB-41-15 (890-1018-4), SB-42-2 (890-1018-5), SB-42-4 (890-1018-6), SB-42-10 (890-1018-7), SB-42-15 (890-1018-8), SB-23-2 (890-1018-9), SB-23-4 (890-1018-10), SB-39-10 (890-1018-11), SB-39-15 (890-1018-12), SB-27-2 (890-1018-13), SB-27-4 (890-1018-14), SB-27-10 (890-1018-15), SB-27-15 (890-1018-16), SB-20-2 (890-1018-17), SB-20-4 (890-1018-18), SB-20-10 (890-1018-19), SB-20-15 (890-1018-20), SB-17-2 (890-1018-21), SB-17-4 (890-1018-22), SB-17-10 (890-1018-23), SB-17-15 (890-1018-24), SB-13-2 (890-1018-25), SB-13-4 (890-1018-26), SB-13-10 (890-1018-27), SB-13-15 (890-1018-28), SB-39-2 (890-1018-29), SB-39-4 (890-1018-30), SB-23-10 (890-1018-31), SB-13-4 (890-1018-32), SB-13-6 (890-1018-33), SB-13-10 (890-1018-34), SB-13-18 (890-1018-35), SB-13-30 (890-1018-36), SB-40-2 (890-1018-37), SB-40-4 (890-1018-38), SB-40-10 (890-1018-39), SB-40-15 (890-1018-40), SB-40-20 (890-1018-41), SB-21-2 (890-1018-42), SB-21-4 (890-1018-43), SB-21-10 (890-1018-44), SB-21-15 (890-1018-45), SB-21-20 (890-1018-46), SB-32-2 (890-1018-47), SB-32-4 (890-1018-48), SB-32-10 (890-1018-49), SB-32-15 (890-1018-50) and SB-32-20 (890-1018-51).

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Job ID: 890-1018-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): SB-41-2 (890-1018-1), SB-41-4 (890-1018-2), SB-41-10 (890-1018-3), SB-41-15 (890-1018-4), SB-42-2 (890-1018-5), SB-42-4 (890-1018-6), SB-42-10 (890-1018-7), SB-42-15 (890-1018-8), SB-23-2 (890-1018-9), SB-23-4 (890-1018-10), SB-39-10 (890-1018-11), SB-39-15 (890-1018-12), SB-27-2 (890-1018-13), SB-27-4 (890-1018-14), SB-27-10 (890-1018-15), SB-27-15 (890-1018-16), SB-20-2 (890-1018-17), SB-20-4 (890-1018-18), SB-20-10 (890-1018-19), SB-20-15 (890-1018-20), SB-17-2 (890-1018-21), SB-17-4 (890-1018-22), SB-17-10 (890-1018-23), SB-17-15 (890-1018-24), SB-13-2 (890-1018-25), SB-13-4 (890-1018-26), SB-13-10 (890-1018-27), SB-13-15 (890-1018-28), SB-39-2 (890-1018-29), SB-39-4 (890-1018-30), SB-23-10 (890-1018-31), SB-13-4 (890-1018-32), SB-13-6 (890-1018-33), SB-13-10 (890-1018-34), SB-13-18 (890-1018-35), SB-13-30 (890-1018-36), SB-40-2 (890-1018-37), SB-40-4 (890-1018-38), SB-40-10 (890-1018-39), SB-40-15 (890-1018-40), SB-40-20 (890-1018-41), SB-21-2 (890-1018-42), SB-21-4 (890-1018-43), SB-21-10 (890-1018-44), SB-21-15 (890-1018-45), SB-21-20 (890-1018-46), SB-32-2 (890-1018-47), SB-32-4 (890-1018-48), SB-32-10 (890-1018-49), SB-32-15 (890-1018-50) and SB-32-20 (890-1018-51). On sample numbered 890-1018-16 The container labels list SB-27-20 7-26-2021 16:40 while the COC lists SB-27-15 7-26-2021 16:40, it is fair to say that with the same date and time that these are the same sample

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-5821 and analytical batch 880-5782 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SB-41-4 (890-1018-2), SB-27-4 (890-1018-14), SB-20-10 (890-1018-19), SB-20-15 (890-1018-20), SB-17-4 (890-1018-22) and SB-13-2 (890-1018-25). 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 method blank for preparation batch 880-5882 and analytical batch 880-5915 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-5902 and analytical batch 880-5917 contained Oil Range Organics (Over C28-C36) and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-5838 and analytical batch 880-5932 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-41-2

Lab Sample ID: 890-1018-1

Date Collected: 07/27/21 12:35

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/29/21 12:00	07/29/21 17:09	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		07/29/21 12:00	07/29/21 17:09	1
Ethylbenzene	0.000585	J	0.00201	0.000567	mg/Kg		07/29/21 12:00	07/29/21 17:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 12:00	07/29/21 17:09	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		07/29/21 12:00	07/29/21 17:09	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 12:00	07/29/21 17:09	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 12:00	07/29/21 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	07/29/21 12:00	07/29/21 17:09	1
1,4-Difluorobenzene (Surr)	104		70 - 130	07/29/21 12:00	07/29/21 17:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.0	J	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 23:41	1
Diesel Range Organics (Over C10-C28)	15.8	J B	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 23:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 23:41	1
Total TPH	31.8	J B	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	07/29/21 16:22	08/01/21 23:41	1
o-Terphenyl	95		70 - 130	07/29/21 16:22	08/01/21 23:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.94		4.97	0.853	mg/Kg			07/30/21 20:37	1

Client Sample ID: SB-41-4

Lab Sample ID: 890-1018-2

Date Collected: 07/27/21 12:40

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 12:00	07/29/21 17:29	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/29/21 12:00	07/29/21 17:29	1
Ethylbenzene	0.00141	J	0.00199	0.000563	mg/Kg		07/29/21 12:00	07/29/21 17:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 12:00	07/29/21 17:29	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/29/21 12:00	07/29/21 17:29	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 12:00	07/29/21 17:29	1
Total BTEX	0.00141	J	0.00398	0.00101	mg/Kg		07/29/21 12:00	07/29/21 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	07/29/21 12:00	07/29/21 17:29	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/29/21 12:00	07/29/21 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 00:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-41-4

Lab Sample ID: 890-1018-2

Date Collected: 07/27/21 12:40

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 00:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 00:44	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				07/29/21 16:22	08/02/21 00:44	1
o-Terphenyl	99		70 - 130				07/29/21 16:22	08/02/21 00:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.68		4.99	0.857	mg/Kg			07/30/21 20:42	1

Client Sample ID: SB-41-10

Lab Sample ID: 890-1018-3

Date Collected: 07/27/21 12:45

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
Toluene	0.000585	J	0.00199	0.000453	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
Ethylbenzene	0.00104	J	0.00199	0.000562	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
o-Xylene	0.000422	J	0.00199	0.000342	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
Total BTEX	0.00205	J	0.00398	0.00100	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				07/29/21 12:00	07/29/21 19:19	1
1,4-Difluorobenzene (Surr)	88		70 - 130				07/29/21 12:00	07/29/21 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:04	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/29/21 16:22	08/02/21 01:04	1
o-Terphenyl	96		70 - 130				07/29/21 16:22	08/02/21 01:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.6		5.04	0.865	mg/Kg			07/30/21 20:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-41-15

Lab Sample ID: 890-1018-4

Date Collected: 07/27/21 12:50

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/29/21 12:00	07/29/21 19:40	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		07/29/21 12:00	07/29/21 19:40	1
Ethylbenzene	0.00119	J	0.00201	0.000567	mg/Kg		07/29/21 12:00	07/29/21 19:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 12:00	07/29/21 19:40	1
o-Xylene	0.000545	J	0.00201	0.000345	mg/Kg		07/29/21 12:00	07/29/21 19:40	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 12:00	07/29/21 19:40	1
Total BTEX	0.00174	J	0.00402	0.00101	mg/Kg		07/29/21 12:00	07/29/21 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	07/29/21 12:00	07/29/21 19:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/29/21 12:00	07/29/21 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:25	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	07/29/21 16:22	08/02/21 01:25	1
o-Terphenyl	101		70 - 130	07/29/21 16:22	08/02/21 01:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.5		4.98	0.855	mg/Kg			07/30/21 20:53	1

Client Sample ID: SB-42-2

Lab Sample ID: 890-1018-5

Date Collected: 07/27/21 14:15

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/29/21 12:00	07/29/21 20:00	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		07/29/21 12:00	07/29/21 20:00	1
Ethylbenzene	0.00131	J	0.00201	0.000568	mg/Kg		07/29/21 12:00	07/29/21 20:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		07/29/21 12:00	07/29/21 20:00	1
o-Xylene	0.000361	J	0.00201	0.000346	mg/Kg		07/29/21 12:00	07/29/21 20:00	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		07/29/21 12:00	07/29/21 20:00	1
Total BTEX	0.00167	J	0.00402	0.00102	mg/Kg		07/29/21 12:00	07/29/21 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/29/21 12:00	07/29/21 20:00	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/29/21 12:00	07/29/21 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		07/29/21 16:22	08/02/21 01:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-42-2

Lab Sample ID: 890-1018-5

Date Collected: 07/27/21 14:15

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		07/29/21 16:22	08/02/21 01:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		07/29/21 16:22	08/02/21 01:46	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		07/29/21 16:22	08/02/21 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				07/29/21 16:22	08/02/21 01:46	1
o-Terphenyl	97		70 - 130				07/29/21 16:22	08/02/21 01:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.60		5.00	0.858	mg/Kg			07/30/21 20:58	1

Client Sample ID: SB-42-4

Lab Sample ID: 890-1018-6

Date Collected: 07/27/21 14:20

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
Ethylbenzene	0.000700	J	0.00200	0.000564	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				07/29/21 12:00	07/29/21 20:21	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/29/21 12:00	07/29/21 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.8	J	49.7	14.9	mg/Kg		07/29/21 16:22	08/02/21 02:07	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	14.9	mg/Kg		07/29/21 16:22	08/02/21 02:07	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		07/29/21 16:22	08/02/21 02:07	1
Total TPH	16.8	J B	49.7	14.9	mg/Kg		07/29/21 16:22	08/02/21 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				07/29/21 16:22	08/02/21 02:07	1
o-Terphenyl	93		70 - 130				07/29/21 16:22	08/02/21 02:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.25		5.00	0.858	mg/Kg			07/30/21 21:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-42-10

Lab Sample ID: 890-1018-7

Date Collected: 07/27/21 14:25

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 12:00	07/29/21 20:41	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		07/29/21 12:00	07/29/21 20:41	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		07/29/21 12:00	07/29/21 20:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 12:00	07/29/21 20:41	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		07/29/21 12:00	07/29/21 20:41	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 12:00	07/29/21 20:41	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 12:00	07/29/21 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	07/29/21 12:00	07/29/21 20:41	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/29/21 12:00	07/29/21 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:27	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/29/21 16:22	08/02/21 02:27	1
o-Terphenyl	106		70 - 130	07/29/21 16:22	08/02/21 02:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		5.05	0.867	mg/Kg			07/30/21 21:09	1

Client Sample ID: SB-42-15

Lab Sample ID: 890-1018-8

Date Collected: 07/27/21 14:30

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000382	mg/Kg		07/29/21 12:00	07/29/21 21:01	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg		07/29/21 12:00	07/29/21 21:01	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		07/29/21 12:00	07/29/21 21:01	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg		07/29/21 12:00	07/29/21 21:01	1
o-Xylene	0.000529	J	0.00198	0.000341	mg/Kg		07/29/21 12:00	07/29/21 21:01	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg		07/29/21 12:00	07/29/21 21:01	1
Total BTEX	<0.00397	U	0.00397	0.00100	mg/Kg		07/29/21 12:00	07/29/21 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	07/29/21 12:00	07/29/21 21:01	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/29/21 12:00	07/29/21 21:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-42-15

Lab Sample ID: 890-1018-8

Date Collected: 07/27/21 14:30

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	20.2	J B	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:48	1
Total TPH	20.2	J B	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/29/21 16:22	08/02/21 02:48	1
o-Terphenyl	96		70 - 130				07/29/21 16:22	08/02/21 02:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.3	F1	4.98	0.855	mg/Kg			07/31/21 00:38	1

Client Sample ID: SB-23-2

Lab Sample ID: 890-1018-9

Date Collected: 07/27/21 15:00

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
Ethylbenzene	0.000637	J	0.00198	0.000559	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				07/29/21 12:00	07/29/21 21:22	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/29/21 12:00	07/29/21 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:09	1
Diesel Range Organics (Over C10-C28)	21.1	J B	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:09	1
Total TPH	21.1	J B	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				07/29/21 16:22	08/02/21 03:09	1
o-Terphenyl	97		70 - 130				07/29/21 16:22	08/02/21 03:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.79		5.04	0.865	mg/Kg			07/31/21 00:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-23-4

Lab Sample ID: 890-1018-10

Date Collected: 07/27/21 15:05

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		07/29/21 12:00	07/29/21 21:42	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		07/29/21 12:00	07/29/21 21:42	1
Ethylbenzene	0.000911	J	0.00200	0.000566	mg/Kg		07/29/21 12:00	07/29/21 21:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 12:00	07/29/21 21:42	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		07/29/21 12:00	07/29/21 21:42	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 12:00	07/29/21 21:42	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 12:00	07/29/21 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	07/29/21 12:00	07/29/21 21:42	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/29/21 12:00	07/29/21 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:30	1
Diesel Range Organics (Over C10-C28)	16.1	J B	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:30	1
Total TPH	16.1	J B	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	07/29/21 16:22	08/02/21 03:30	1
o-Terphenyl	94		70 - 130	07/29/21 16:22	08/02/21 03:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.1		4.99	0.857	mg/Kg			07/31/21 01:00	1

Client Sample ID: SB-39-10

Lab Sample ID: 890-1018-11

Date Collected: 07/26/21 13:20

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 12:00	07/29/21 22:02	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/29/21 12:00	07/29/21 22:02	1
Ethylbenzene	0.000712	J	0.00199	0.000563	mg/Kg		07/29/21 12:00	07/29/21 22:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 12:00	07/29/21 22:02	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/29/21 12:00	07/29/21 22:02	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 12:00	07/29/21 22:02	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 12:00	07/29/21 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/29/21 12:00	07/29/21 22:02	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/29/21 12:00	07/29/21 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-39-10

Lab Sample ID: 890-1018-11

Date Collected: 07/26/21 13:20

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:12	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/29/21 16:22	08/02/21 04:12	1
o-Terphenyl	99		70 - 130				07/29/21 16:22	08/02/21 04:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.81		4.95	0.850	mg/Kg			07/31/21 01:05	1

Client Sample ID: SB-39-15

Lab Sample ID: 890-1018-12

Date Collected: 07/26/21 13:25

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
o-Xylene	0.000345	J	0.00200	0.000343	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				07/29/21 12:00	07/29/21 22:23	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/29/21 12:00	07/29/21 22:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:33	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				07/29/21 16:22	08/02/21 04:33	1
o-Terphenyl	93		70 - 130				07/29/21 16:22	08/02/21 04:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.9		5.02	0.862	mg/Kg			07/31/21 01:11	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-27-2

Lab Sample ID: 890-1018-13

Date Collected: 07/26/21 09:30

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202	0.000388	mg/Kg		07/29/21 13:38	07/30/21 02:00	1
Toluene	<0.00202	U F2 F1	0.00202	0.000460	mg/Kg		07/29/21 13:38	07/30/21 02:00	1
Ethylbenzene	0.000600	J F2 F1	0.00202	0.000570	mg/Kg		07/29/21 13:38	07/30/21 02:00	1
m-Xylene & p-Xylene	<0.00403	U F1	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 02:00	1
o-Xylene	0.000360	J F1	0.00202	0.000347	mg/Kg		07/29/21 13:38	07/30/21 02:00	1
Xylenes, Total	<0.00403	U F1	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 02:00	1
Total BTEX	<0.00403	U F1	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 02:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	07/29/21 13:38	07/30/21 02:00	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/29/21 13:38	07/30/21 02:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:54	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	07/29/21 16:22	08/02/21 04:54	1
o-Terphenyl	99		70 - 130	07/29/21 16:22	08/02/21 04:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.84		4.98	0.855	mg/Kg			07/31/21 01:27	1

Client Sample ID: SB-27-4

Lab Sample ID: 890-1018-14

Date Collected: 07/26/21 16:30

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000492	J	0.00200	0.000384	mg/Kg		07/29/21 13:38	07/30/21 02:20	1
Toluene	0.000749	J	0.00200	0.000455	mg/Kg		07/29/21 13:38	07/30/21 02:20	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		07/29/21 13:38	07/30/21 02:20	1
m-Xylene & p-Xylene	0.00150	J	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 02:20	1
o-Xylene	0.00155	J	0.00200	0.000343	mg/Kg		07/29/21 13:38	07/30/21 02:20	1
Xylenes, Total	0.00305	J	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 02:20	1
Total BTEX	0.00429		0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 02:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	07/29/21 13:38	07/30/21 02:20	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/29/21 13:38	07/30/21 02:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-27-4

Lab Sample ID: 890-1018-14

Date Collected: 07/26/21 16:30

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:14	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				07/29/21 16:22	08/02/21 05:14	1
o-Terphenyl	92		70 - 130				07/29/21 16:22	08/02/21 05:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.47		4.95	0.850	mg/Kg			07/31/21 01:32	1

Client Sample ID: SB-27-10

Lab Sample ID: 890-1018-15

Date Collected: 07/26/21 16:35

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
Ethylbenzene	0.00134	J	0.00199	0.000562	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
o-Xylene	0.000455	J	0.00199	0.000342	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
Total BTEX	0.00180	J	0.00398	0.00100	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				07/29/21 13:38	07/30/21 02:41	1
1,4-Difluorobenzene (Surr)	91		70 - 130				07/29/21 13:38	07/30/21 02:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:35	1
Diesel Range Organics (Over C10-C28)	16.0	J B	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:35	1
Total TPH	16.0	J B	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				07/29/21 16:22	08/02/21 05:35	1
o-Terphenyl	94		70 - 130				07/29/21 16:22	08/02/21 05:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	779		5.04	0.865	mg/Kg			07/31/21 01:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-27-15

Lab Sample ID: 890-1018-16

Date Collected: 07/26/21 16:40

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 13:38	07/30/21 03:01	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/29/21 13:38	07/30/21 03:01	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		07/29/21 13:38	07/30/21 03:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:01	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/29/21 13:38	07/30/21 03:01	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:01	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/29/21 13:38	07/30/21 03:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/29/21 13:38	07/30/21 03:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:56	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	07/29/21 16:22	08/02/21 05:56	1
o-Terphenyl	93		70 - 130	07/29/21 16:22	08/02/21 05:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	138		5.01	0.860	mg/Kg			07/31/21 01:43	1

Client Sample ID: SB-20-2

Lab Sample ID: 890-1018-17

Date Collected: 07/27/21 09:00

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		07/29/21 13:38	07/30/21 03:22	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		07/29/21 13:38	07/30/21 03:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		07/29/21 13:38	07/30/21 03:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:22	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		07/29/21 13:38	07/30/21 03:22	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:22	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/29/21 13:38	07/30/21 03:22	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/29/21 13:38	07/30/21 03:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-20-2

Lab Sample ID: 890-1018-17

Date Collected: 07/27/21 09:00

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:17	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				07/29/21 16:22	08/02/21 06:17	1
o-Terphenyl	89		70 - 130				07/29/21 16:22	08/02/21 06:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.9		4.98	0.855	mg/Kg			07/31/21 01:48	1

Client Sample ID: SB-20-4

Lab Sample ID: 890-1018-18

Date Collected: 07/27/21 09:05

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
o-Xylene	0.000353	J	0.00200	0.000345	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				07/29/21 13:38	07/30/21 03:42	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/29/21 13:38	07/30/21 03:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.4	J	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:38	1
Total TPH	15.4	J B	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				07/29/21 16:22	08/02/21 06:38	1
o-Terphenyl	92		70 - 130				07/29/21 16:22	08/02/21 06:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.1		5.00	0.858	mg/Kg			07/31/21 01:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-20-10

Lab Sample ID: 890-1018-19

Date Collected: 07/27/21 09:10

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000507	J	0.00201	0.000387	mg/Kg		07/29/21 13:38	07/30/21 04:02	1
Toluene	0.00117	J	0.00201	0.000458	mg/Kg		07/29/21 13:38	07/30/21 04:02	1
Ethylbenzene	0.000736	J	0.00201	0.000567	mg/Kg		07/29/21 13:38	07/30/21 04:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 13:38	07/30/21 04:02	1
o-Xylene	0.000783	J	0.00201	0.000345	mg/Kg		07/29/21 13:38	07/30/21 04:02	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 13:38	07/30/21 04:02	1
Total BTEX	0.00320	J	0.00402	0.00101	mg/Kg		07/29/21 13:38	07/30/21 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	07/29/21 13:38	07/30/21 04:02	1
1,4-Difluorobenzene (Surr)	72		70 - 130	07/29/21 13:38	07/30/21 04:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:59	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	07/29/21 16:22	08/02/21 06:59	1
o-Terphenyl	99		70 - 130	07/29/21 16:22	08/02/21 06:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		4.99	0.857	mg/Kg			07/31/21 02:10	1

Client Sample ID: SB-20-15

Lab Sample ID: 890-1018-20

Date Collected: 07/27/21 09:15

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000505	J	0.00200	0.000386	mg/Kg		07/29/21 13:38	07/30/21 04:23	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		07/29/21 13:38	07/30/21 04:23	1
Ethylbenzene	0.00114	J	0.00200	0.000566	mg/Kg		07/29/21 13:38	07/30/21 04:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 04:23	1
o-Xylene	0.000966	J	0.00200	0.000345	mg/Kg		07/29/21 13:38	07/30/21 04:23	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 04:23	1
Total BTEX	0.00261	J	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	07/29/21 13:38	07/30/21 04:23	1
1,4-Difluorobenzene (Surr)	88		70 - 130	07/29/21 13:38	07/30/21 04:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 07:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-20-15

Lab Sample ID: 890-1018-20

Date Collected: 07/27/21 09:15

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 07:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 07:20	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 07:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				07/29/21 16:22	08/02/21 07:20	1
o-Terphenyl	100		70 - 130				07/29/21 16:22	08/02/21 07:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		25.2	4.33	mg/Kg			07/31/21 02:15	5

Client Sample ID: SB-17-2

Lab Sample ID: 890-1018-21

Date Collected: 07/26/21 09:20

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				07/29/21 13:38	07/30/21 04:43	1
1,4-Difluorobenzene (Surr)	89		70 - 130				07/29/21 13:38	07/30/21 04:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 13:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 13:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 13:03	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				07/30/21 13:47	07/31/21 13:03	1
o-Terphenyl	107		70 - 130				07/30/21 13:47	07/31/21 13:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		5.02	0.862	mg/Kg			07/31/21 02:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-17-4

Lab Sample ID: 890-1018-22

Date Collected: 07/26/21 11:30

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000583	J	0.00200	0.000386	mg/Kg		07/29/21 13:38	07/30/21 05:04	1
Toluene	0.00283		0.00200	0.000457	mg/Kg		07/29/21 13:38	07/30/21 05:04	1
Ethylbenzene	0.000943	J	0.00200	0.000566	mg/Kg		07/29/21 13:38	07/30/21 05:04	1
m-Xylene & p-Xylene	0.00209	J	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 05:04	1
o-Xylene	0.00264		0.00200	0.000345	mg/Kg		07/29/21 13:38	07/30/21 05:04	1
Xylenes, Total	0.00473		0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 05:04	1
Total BTEX	0.00909		0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	07/29/21 13:38	07/30/21 05:04	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/29/21 13:38	07/30/21 05:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:07	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	07/30/21 13:47	07/31/21 14:07	1
o-Terphenyl	107		70 - 130	07/30/21 13:47	07/31/21 14:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.38		5.00	0.858	mg/Kg			07/31/21 02:37	1

Client Sample ID: SB-17-10

Lab Sample ID: 890-1018-23

Date Collected: 07/26/21 11:35

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		07/29/21 13:38	07/30/21 06:53	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		07/29/21 13:38	07/30/21 06:53	1
Ethylbenzene	0.000644	J	0.00202	0.000570	mg/Kg		07/29/21 13:38	07/30/21 06:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 06:53	1
o-Xylene	0.000380	J	0.00202	0.000347	mg/Kg		07/29/21 13:38	07/30/21 06:53	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 06:53	1
Total BTEX	0.00102	J	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 06:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	07/29/21 13:38	07/30/21 06:53	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/29/21 13:38	07/30/21 06:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-17-10

Lab Sample ID: 890-1018-23

Date Collected: 07/26/21 11:35

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:28	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				07/30/21 13:47	07/31/21 14:28	1
o-Terphenyl	104		70 - 130				07/30/21 13:47	07/31/21 14:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.58		4.98	0.855	mg/Kg			07/31/21 02:42	1

Client Sample ID: SB-17-15

Lab Sample ID: 890-1018-24

Date Collected: 07/26/21 11:40

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
o-Xylene	0.000640	J	0.00201	0.000345	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				07/29/21 13:38	07/30/21 07:13	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/29/21 13:38	07/30/21 07:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:49	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				07/30/21 13:47	07/31/21 14:49	1
o-Terphenyl	100		70 - 130				07/30/21 13:47	07/31/21 14:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		4.95	0.850	mg/Kg			07/31/21 02:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-13-2

Lab Sample ID: 890-1018-25

Date Collected: 07/25/21 09:00

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00183	J	0.00200	0.000384	mg/Kg		07/29/21 13:38	07/30/21 07:34	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		07/29/21 13:38	07/30/21 07:34	1
Ethylbenzene	0.00188	J	0.00200	0.000564	mg/Kg		07/29/21 13:38	07/30/21 07:34	1
m-Xylene & p-Xylene	0.00432		0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 07:34	1
o-Xylene	0.00709		0.00200	0.000343	mg/Kg		07/29/21 13:38	07/30/21 07:34	1
Xylenes, Total	0.0114		0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 07:34	1
Total BTEX	0.0151		0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 07:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	07/29/21 13:38	07/30/21 07:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/29/21 13:38	07/30/21 07:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		07/30/21 13:47	07/31/21 15:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		07/30/21 13:47	07/31/21 15:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		07/30/21 13:47	07/31/21 15:10	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		07/30/21 13:47	07/31/21 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	07/30/21 13:47	07/31/21 15:10	1
o-Terphenyl	114		70 - 130	07/30/21 13:47	07/31/21 15:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.77		4.95	0.850	mg/Kg			07/31/21 02:53	1

Client Sample ID: SB-13-10

Lab Sample ID: 890-1018-27

Date Collected: 07/25/21 09:10

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		07/29/21 13:38	07/30/21 08:14	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		07/29/21 13:38	07/30/21 08:14	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		07/29/21 13:38	07/30/21 08:14	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 08:14	1
o-Xylene	0.000388	J	0.00202	0.000347	mg/Kg		07/29/21 13:38	07/30/21 08:14	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 08:14	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 08:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	07/29/21 13:38	07/30/21 08:14	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/29/21 13:38	07/30/21 08:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 15:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-13-10

Lab Sample ID: 890-1018-27

Date Collected: 07/25/21 09:10

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 15:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 15:52	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				07/30/21 13:47	07/31/21 15:52	1
o-Terphenyl	111		70 - 130				07/30/21 13:47	07/31/21 15:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.72		4.96	0.851	mg/Kg			07/31/21 03:04	1

Client Sample ID: SB-39-2

Lab Sample ID: 890-1018-29

Date Collected: 07/26/21 09:25

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				07/29/21 13:38	07/30/21 08:55	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/29/21 13:38	07/30/21 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:13	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				07/30/21 13:47	07/31/21 16:13	1
o-Terphenyl	102		70 - 130				07/30/21 13:47	07/31/21 16:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.36		4.95	0.850	mg/Kg			07/31/21 06:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-39-4

Lab Sample ID: 890-1018-30

Date Collected: 07/26/21 13:15

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 13:38	07/30/21 09:16	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/29/21 13:38	07/30/21 09:16	1
Ethylbenzene	0.000622	J	0.00199	0.000563	mg/Kg		07/29/21 13:38	07/30/21 09:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 13:38	07/30/21 09:16	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/29/21 13:38	07/30/21 09:16	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 13:38	07/30/21 09:16	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 13:38	07/30/21 09:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/29/21 13:38	07/30/21 09:16	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/29/21 13:38	07/30/21 09:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:34	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	07/30/21 13:47	07/31/21 16:34	1
o-Terphenyl	110		70 - 130	07/30/21 13:47	07/31/21 16:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.86		5.05	0.867	mg/Kg			07/31/21 06:07	1

Client Sample ID: SB-23-10

Lab Sample ID: 890-1018-31

Date Collected: 07/27/21 15:10

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 13:38	07/30/21 09:36	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		07/29/21 13:38	07/30/21 09:36	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		07/29/21 13:38	07/30/21 09:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 13:38	07/30/21 09:36	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		07/29/21 13:38	07/30/21 09:36	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 13:38	07/30/21 09:36	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 13:38	07/30/21 09:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/29/21 13:38	07/30/21 09:36	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/29/21 13:38	07/30/21 09:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-23-10

Lab Sample ID: 890-1018-31

Date Collected: 07/27/21 15:10

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:55	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				07/30/21 13:47	07/31/21 16:55	1
o-Terphenyl	115		70 - 130				07/30/21 13:47	07/31/21 16:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		4.97	0.853	mg/Kg			07/31/21 06:12	1

Client Sample ID: SB-13-4

Lab Sample ID: 890-1018-32

Date Collected: 07/25/21 09:05

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				07/30/21 09:30	07/31/21 00:44	1
1,4-Difluorobenzene (Surr)	103		70 - 130				07/30/21 09:30	07/31/21 00:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 17:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 17:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 17:38	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				07/30/21 13:47	07/31/21 17:38	1
o-Terphenyl	103		70 - 130				07/30/21 13:47	07/31/21 17:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.8		5.01	0.860	mg/Kg			07/31/21 07:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-13-18

Lab Sample ID: 890-1018-35

Date Collected: 07/25/21 09:25

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		07/30/21 09:30	07/31/21 01:45	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		07/30/21 09:30	07/31/21 01:45	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		07/30/21 09:30	07/31/21 01:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		07/30/21 09:30	07/31/21 01:45	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		07/30/21 09:30	07/31/21 01:45	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		07/30/21 09:30	07/31/21 01:45	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		07/30/21 09:30	07/31/21 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	07/30/21 09:30	07/31/21 01:45	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/30/21 09:30	07/31/21 01:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:20	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	07/30/21 13:47	07/31/21 18:20	1
o-Terphenyl	112		70 - 130	07/30/21 13:47	07/31/21 18:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.6		5.00	0.858	mg/Kg			07/31/21 08:06	1

Client Sample ID: SB-13-30

Lab Sample ID: 890-1018-36

Date Collected: 07/25/21 09:30

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/30/21 09:30	07/31/21 02:06	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		07/30/21 09:30	07/31/21 02:06	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		07/30/21 09:30	07/31/21 02:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		07/30/21 09:30	07/31/21 02:06	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		07/30/21 09:30	07/31/21 02:06	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		07/30/21 09:30	07/31/21 02:06	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		07/30/21 09:30	07/31/21 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/30/21 09:30	07/31/21 02:06	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/30/21 09:30	07/31/21 02:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-13-30

Lab Sample ID: 890-1018-36

Date Collected: 07/25/21 09:30

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:41	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				07/30/21 13:47	07/31/21 18:41	1
o-Terphenyl	109		70 - 130				07/30/21 13:47	07/31/21 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190	F1	4.95	0.850	mg/Kg			07/31/21 08:11	1

Client Sample ID: SB-40-2

Lab Sample ID: 890-1018-37

Date Collected: 07/26/21 16:50

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				07/30/21 09:30	07/31/21 02:26	1
1,4-Difluorobenzene (Surr)	102		70 - 130				07/30/21 09:30	07/31/21 02:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:02	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				07/30/21 13:47	07/31/21 19:02	1
o-Terphenyl	107		70 - 130				07/30/21 13:47	07/31/21 19:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.3		5.04	0.865	mg/Kg			07/31/21 08:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-40-4

Lab Sample ID: 890-1018-38

Date Collected: 07/26/21 16:55

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/30/21 09:30	07/31/21 02:46	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/30/21 09:30	07/31/21 02:46	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		07/30/21 09:30	07/31/21 02:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 02:46	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/30/21 09:30	07/31/21 02:46	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 02:46	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	07/30/21 09:30	07/31/21 02:46	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/30/21 09:30	07/31/21 02:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:23	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	07/30/21 13:47	07/31/21 19:23	1
o-Terphenyl	104		70 - 130	07/30/21 13:47	07/31/21 19:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		4.97	0.853	mg/Kg			07/31/21 08:33	1

Client Sample ID: SB-40-10

Lab Sample ID: 890-1018-39

Date Collected: 07/26/21 17:00

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		07/30/21 09:30	07/31/21 03:07	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		07/30/21 09:30	07/31/21 03:07	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		07/30/21 09:30	07/31/21 03:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		07/30/21 09:30	07/31/21 03:07	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		07/30/21 09:30	07/31/21 03:07	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		07/30/21 09:30	07/31/21 03:07	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		07/30/21 09:30	07/31/21 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	07/30/21 09:30	07/31/21 03:07	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/30/21 09:30	07/31/21 03:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-40-10

Lab Sample ID: 890-1018-39

Date Collected: 07/26/21 17:00

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:44	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				07/30/21 13:47	07/31/21 19:44	1
o-Terphenyl	110		70 - 130				07/30/21 13:47	07/31/21 19:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	649		4.99	0.857	mg/Kg			07/31/21 08:49	1

Client Sample ID: SB-40-15

Lab Sample ID: 890-1018-40

Date Collected: 07/26/21 17:05

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				07/30/21 09:30	07/31/21 03:27	1
1,4-Difluorobenzene (Surr)	93		70 - 130				07/30/21 09:30	07/31/21 03:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:05	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				07/30/21 13:47	07/31/21 20:05	1
o-Terphenyl	114		70 - 130				07/30/21 13:47	07/31/21 20:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.0		5.00	0.858	mg/Kg			07/31/21 08:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-21-2

Lab Sample ID: 890-1018-42

Date Collected: 07/27/21 10:30

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		07/30/21 09:30	07/31/21 05:09	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		07/30/21 09:30	07/31/21 05:09	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		07/30/21 09:30	07/31/21 05:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		07/30/21 09:30	07/31/21 05:09	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		07/30/21 09:30	07/31/21 05:09	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		07/30/21 09:30	07/31/21 05:09	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		07/30/21 09:30	07/31/21 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/30/21 09:30	07/31/21 05:09	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/30/21 09:30	07/31/21 05:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:26	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	07/30/21 13:47	07/31/21 20:26	1
o-Terphenyl	122		70 - 130	07/30/21 13:47	07/31/21 20:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.2		4.98	0.855	mg/Kg			07/31/21 08:59	1

Client Sample ID: SB-21-4

Lab Sample ID: 890-1018-43

Date Collected: 07/27/21 10:35

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/30/21 09:30	07/31/21 05:29	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/30/21 09:30	07/31/21 05:29	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		07/30/21 09:30	07/31/21 05:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 05:29	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/30/21 09:30	07/31/21 05:29	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 05:29	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 05:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	07/30/21 09:30	07/31/21 05:29	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/30/21 09:30	07/31/21 05:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-21-4

Lab Sample ID: 890-1018-43

Date Collected: 07/27/21 10:35

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:47	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				07/30/21 13:47	07/31/21 20:47	1
o-Terphenyl	114		70 - 130				07/30/21 13:47	07/31/21 20:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		4.99	0.857	mg/Kg			07/31/21 09:05	1

Client Sample ID: SB-21-10

Lab Sample ID: 890-1018-44

Date Collected: 07/27/21 10:40

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				07/30/21 09:30	07/31/21 05:50	1
1,4-Difluorobenzene (Surr)	72		70 - 130				07/30/21 09:30	07/31/21 05:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:13	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				07/30/21 14:36	07/31/21 16:13	1
o-Terphenyl	112		70 - 130				07/30/21 14:36	07/31/21 16:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7080		49.9	8.57	mg/Kg			07/31/21 09:10	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-21-20

Lab Sample ID: 890-1018-46

Date Collected: 07/27/21 10:50

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/30/21 09:30	07/31/21 06:31	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		07/30/21 09:30	07/31/21 06:31	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		07/30/21 09:30	07/31/21 06:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		07/30/21 09:30	07/31/21 06:31	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		07/30/21 09:30	07/31/21 06:31	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		07/30/21 09:30	07/31/21 06:31	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		07/30/21 09:30	07/31/21 06:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	07/30/21 09:30	07/31/21 06:31	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/30/21 09:30	07/31/21 06:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.3	J	49.9	15.0	mg/Kg		08/03/21 15:37	08/04/21 00:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/03/21 15:37	08/04/21 00:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/03/21 15:37	08/04/21 00:40	1
Total TPH	25.3	J	49.9	15.0	mg/Kg		08/03/21 15:37	08/04/21 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	08/03/21 15:37	08/04/21 00:40	1
o-Terphenyl	90		70 - 130	08/03/21 15:37	08/04/21 00:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4850		25.0	4.29	mg/Kg			08/05/21 04:37	5

Client Sample ID: SB-32-2

Lab Sample ID: 890-1018-47

Date Collected: 07/27/21 15:20

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		07/30/21 09:30	07/31/21 06:51	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		07/30/21 09:30	07/31/21 06:51	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		07/30/21 09:30	07/31/21 06:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		07/30/21 09:30	07/31/21 06:51	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		07/30/21 09:30	07/31/21 06:51	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		07/30/21 09:30	07/31/21 06:51	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		07/30/21 09:30	07/31/21 06:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/30/21 09:30	07/31/21 06:51	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/30/21 09:30	07/31/21 06:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-32-2

Lab Sample ID: 890-1018-47

Date Collected: 07/27/21 15:20

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:34	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				07/30/21 14:36	07/31/21 16:34	1
o-Terphenyl	115		70 - 130				07/30/21 14:36	07/31/21 16:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.39		4.99	0.857	mg/Kg			07/31/21 23:48	1

Client Sample ID: SB-32-4

Lab Sample ID: 890-1018-48

Date Collected: 07/27/21 15:25

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				07/30/21 09:30	07/31/21 07:12	1
1,4-Difluorobenzene (Surr)	94		70 - 130				07/30/21 09:30	07/31/21 07:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:55	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				07/30/21 14:36	07/31/21 16:55	1
o-Terphenyl	120		70 - 130				07/30/21 14:36	07/31/21 16:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.0		4.98	0.855	mg/Kg			07/31/21 23:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-32-10

Lab Sample ID: 890-1018-49

Date Collected: 07/27/21 15:30

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/30/21 09:30	07/31/21 07:32	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		07/30/21 09:30	07/31/21 07:32	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		07/30/21 09:30	07/31/21 07:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		07/30/21 09:30	07/31/21 07:32	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		07/30/21 09:30	07/31/21 07:32	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		07/30/21 09:30	07/31/21 07:32	1
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg		07/30/21 09:30	07/31/21 07:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	07/30/21 09:30	07/31/21 07:32	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/30/21 09:30	07/31/21 07:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:38	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	07/30/21 14:36	07/31/21 17:38	1
o-Terphenyl	113		70 - 130	07/30/21 14:36	07/31/21 17:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.3		5.04	0.865	mg/Kg			07/31/21 23:59	1

Client Sample ID: SB-32-15

Lab Sample ID: 890-1018-50

Date Collected: 07/27/21 15:35

Matrix: Solid

Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		07/30/21 09:30	07/31/21 07:52	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		07/30/21 09:30	07/31/21 07:52	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		07/30/21 09:30	07/31/21 07:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		07/30/21 09:30	07/31/21 07:52	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		07/30/21 09:30	07/31/21 07:52	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		07/30/21 09:30	07/31/21 07:52	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		07/30/21 09:30	07/31/21 07:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/30/21 09:30	07/31/21 07:52	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/30/21 09:30	07/31/21 07:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:59	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-32-15

Lab Sample ID: 890-1018-50

Date Collected: 07/27/21 15:35

Matrix: Solid

Date Received: 07/28/21 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:59	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	07/30/21 14:36	07/31/21 17:59	1
o-Terphenyl	117		70 - 130	07/30/21 14:36	07/31/21 17:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224		5.00	0.858	mg/Kg			08/01/21 00:05	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1018-1	SB-41-2	113	104
890-1018-2	SB-41-4	148 S1+	89
890-1018-3	SB-41-10	120	88
890-1018-4	SB-41-15	113	93
890-1018-5	SB-42-2	107	99
890-1018-6	SB-42-4	112	98
890-1018-7	SB-42-10	116	99
890-1018-8	SB-42-15	114	94
890-1018-9	SB-23-2	114	98
890-1018-10	SB-23-4	114	98
890-1018-11	SB-39-10	112	99
890-1018-12	SB-39-15	111	96
890-1018-13	SB-27-2	109	97
890-1018-13 MS	SB-27-2	89	98
890-1018-13 MSD	SB-27-2	112	94
890-1018-14	SB-27-4	149 S1+	90
890-1018-15	SB-27-10	116	91
890-1018-16	SB-27-15	111	97
890-1018-17	SB-20-2	111	97
890-1018-18	SB-20-4	116	97
890-1018-19	SB-20-10	138 S1+	72
890-1018-20	SB-20-15	134 S1+	88
890-1018-21	SB-17-2	118	89
890-1018-22	SB-17-4	156 S1+	89
890-1018-23	SB-17-10	106	92
890-1018-24	SB-17-15	116	97
890-1018-25	SB-13-2	138 S1+	92
890-1018-27	SB-13-10	119	95
890-1018-29	SB-39-2	111	96
890-1018-30	SB-39-4	115	98
890-1018-31	SB-23-10	112	100
890-1018-32	SB-13-4	126	103
890-1018-32 MS	SB-13-4	113	106
890-1018-32 MSD	SB-13-4	119	107
890-1018-35	SB-13-18	114	90
890-1018-36	SB-13-30	115	92
890-1018-37	SB-40-2	101	102
890-1018-38	SB-40-4	96	99
890-1018-39	SB-40-10	114	95
890-1018-40	SB-40-15	122	93
890-1018-42	SB-21-2	108	94
890-1018-43	SB-21-4	118	92
890-1018-44	SB-21-10	106	72
890-1018-46	SB-21-20	122	93
890-1018-47	SB-32-2	112	94
890-1018-48	SB-32-4	113	94
890-1018-49	SB-32-10	114	93
890-1018-50	SB-32-15	104	95
LCS 880-5758/1-A	Lab Control Sample	93	94

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

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)
LCS 880-5821/1-A	Lab Control Sample	100	93
LCS 880-5832/1-A	Lab Control Sample	113	104
LCSD 880-5758/2-A	Lab Control Sample Dup	97	87
LCSD 880-5821/2-A	Lab Control Sample Dup	109	87
LCSD 880-5832/2-A	Lab Control Sample Dup	105	103
MB 880-5758/5-A	Method Blank	112	94
MB 880-5818/5-A	Method Blank	105	92
MB 880-5821/5-A	Method Blank	117	90
MB 880-5832/5-A	Method Blank	115	91
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)
890-1018-1	SB-41-2	89	95
890-1018-1 MS	SB-41-2	87	91
890-1018-1 MSD	SB-41-2	85	87
890-1018-2	SB-41-4	88	99
890-1018-3	SB-41-10	85	96
890-1018-4	SB-41-15	87	101
890-1018-5	SB-42-2	83	97
890-1018-6	SB-42-4	83	93
890-1018-7	SB-42-10	92	106
890-1018-8	SB-42-15	85	96
890-1018-9	SB-23-2	83	97
890-1018-10	SB-23-4	82	94
890-1018-11	SB-39-10	86	99
890-1018-12	SB-39-15	81	93
890-1018-13	SB-27-2	82	99
890-1018-14	SB-27-4	80	92
890-1018-15	SB-27-10	82	94
890-1018-16	SB-27-15	81	93
890-1018-17	SB-20-2	76	89
890-1018-18	SB-20-4	83	92
890-1018-19	SB-20-10	87	99
890-1018-20	SB-20-15	87	100
890-1018-21	SB-17-2	97	107
890-1018-21 MS	SB-17-2	86	87
890-1018-21 MSD	SB-17-2	101	104
890-1018-22	SB-17-4	97	107
890-1018-23	SB-17-10	95	104
890-1018-24	SB-17-15	94	100
890-1018-25	SB-13-2	103	114
890-1018-27	SB-13-10	100	111
890-1018-29	SB-39-2	97	102

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1018-30	SB-39-4	102	110
890-1018-31	SB-23-10	103	115
890-1018-32	SB-13-4	97	103
890-1018-35	SB-13-18	101	112
890-1018-36	SB-13-30	99	109
890-1018-37	SB-40-2	97	107
890-1018-38	SB-40-4	97	104
890-1018-39	SB-40-10	100	110
890-1018-40	SB-40-15	104	114
890-1018-42	SB-21-2	107	122
890-1018-43	SB-21-4	103	114
890-1018-44	SB-21-10	104	112
890-1018-46	SB-21-20	88	90
890-1018-47	SB-32-2	112	115
890-1018-48	SB-32-4	114	120
890-1018-49	SB-32-10	106	113
890-1018-50	SB-32-15	111	117
LCS 880-5838/2-A	Lab Control Sample	96	108
LCS 880-5882/2-A	Lab Control Sample	107	110
LCS 880-5902/2-A	Lab Control Sample	93	94
LCSD 880-5838/3-A	Lab Control Sample Dup	93	105
LCSD 880-5882/3-A	Lab Control Sample Dup	102	105
LCSD 880-5902/3-A	Lab Control Sample Dup	100	99
MB 880-5838/1-A	Method Blank	84	99
MB 880-5882/1-A	Method Blank	98	106
MB 880-5902/1-A	Method Blank	94	104

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5758/5-A

Matrix: Solid

Analysis Batch: 5782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		07/28/21 13:50	07/29/21 13:57	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		07/28/21 13:50	07/29/21 13:57	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		07/28/21 13:50	07/29/21 13:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		07/28/21 13:50	07/29/21 13:57	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		07/28/21 13:50	07/29/21 13:57	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		07/28/21 13:50	07/29/21 13:57	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		07/28/21 13:50	07/29/21 13:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/28/21 13:50	07/29/21 13:57	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/28/21 13:50	07/29/21 13:57	1

Lab Sample ID: LCS 880-5758/1-A

Matrix: Solid

Analysis Batch: 5782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09258		mg/Kg		93	70 - 130
Toluene	0.100	0.09742		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1016		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2047		mg/Kg		102	70 - 130
o-Xylene	0.100	0.09713		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-5758/2-A

Matrix: Solid

Analysis Batch: 5782

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5758

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08634		mg/Kg		86	70 - 130	7	35
Toluene	0.100	0.09449		mg/Kg		94	70 - 130	3	35
Ethylbenzene	0.100	0.1020		mg/Kg		102	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 - 130	0	35
o-Xylene	0.100	0.09873		mg/Kg		99	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-5818/5-A

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		07/30/21 08:30	07/30/21 13:13	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

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

Lab Sample ID: MB 880-5818/5-A

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		07/30/21 08:30	07/30/21 13:13	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		07/30/21 08:30	07/30/21 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 08:30	07/30/21 13:13	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		07/30/21 08:30	07/30/21 13:13	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 08:30	07/30/21 13:13	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 08:30	07/30/21 13:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	07/30/21 08:30	07/30/21 13:13	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/30/21 08:30	07/30/21 13:13	1

Lab Sample ID: MB 880-5821/5-A

Matrix: Solid

Analysis Batch: 5782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		07/29/21 13:38	07/30/21 01:31	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		07/29/21 13:38	07/30/21 01:31	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		07/29/21 13:38	07/30/21 01:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		07/29/21 13:38	07/30/21 01:31	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		07/29/21 13:38	07/30/21 01:31	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		07/29/21 13:38	07/30/21 01:31	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		07/29/21 13:38	07/30/21 01:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	07/29/21 13:38	07/30/21 01:31	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/29/21 13:38	07/30/21 01:31	1

Lab Sample ID: LCS 880-5821/1-A

Matrix: Solid

Analysis Batch: 5782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5821

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08212		mg/Kg		82	70 - 130
Toluene	0.100	0.08951		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.09457		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1893		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09254		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

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

Lab Sample ID: LCSD 880-5821/2-A

Matrix: Solid

Analysis Batch: 5782

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5821

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07051		mg/Kg		71	70 - 130	15	35
Toluene	0.100	0.08778		mg/Kg		88	70 - 130	2	35
Ethylbenzene	0.100	0.09850		mg/Kg		98	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2028		mg/Kg		101	70 - 130	7	35
o-Xylene	0.100	0.09766		mg/Kg		98	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-1018-13 MS

Matrix: Solid

Analysis Batch: 5782

Client Sample ID: SB-27-2

Prep Type: Total/NA

Prep Batch: 5821

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.0998	0.03056	F1	mg/Kg		31	70 - 130		
Toluene	<0.00202	U F2 F1	0.0998	0.01093	F1	mg/Kg		11	70 - 130		
Ethylbenzene	0.000600	J F2 F1	0.0998	0.1019		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.1388		mg/Kg		70	70 - 130		
o-Xylene	0.000360	J F1	0.0998	0.05551	F1	mg/Kg		55	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-1018-13 MSD

Matrix: Solid

Analysis Batch: 5782

Client Sample ID: SB-27-2

Prep Type: Total/NA

Prep Batch: 5821

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.101	0.03543	F1	mg/Kg		35	70 - 130	15	35
Toluene	<0.00202	U F2 F1	0.101	0.05247	F2 F1	mg/Kg		52	70 - 130	131	35
Ethylbenzene	0.000600	J F2 F1	0.101	0.05881	F2 F1	mg/Kg		58	70 - 130	54	35
m-Xylene & p-Xylene	<0.00403	U F1	0.202	0.1131	F1	mg/Kg		56	70 - 130	20	35
o-Xylene	0.000360	J F1	0.101	0.05335	F1	mg/Kg		53	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-5832/5-A

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		07/30/21 09:30	07/31/21 00:22	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		07/30/21 09:30	07/31/21 00:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		07/30/21 09:30	07/31/21 00:22	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

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

Lab Sample ID: MB 880-5832/5-A

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 09:30	07/31/21 00:22	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		07/30/21 09:30	07/31/21 00:22	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 09:30	07/31/21 00:22	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 09:30	07/31/21 00:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/30/21 09:30	07/31/21 00:22	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/30/21 09:30	07/31/21 00:22	1

Lab Sample ID: LCS 880-5832/1-A

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09951		mg/Kg		100	70 - 130
Toluene	0.100	0.09197		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09141		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1839		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09422		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-5832/2-A

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5832

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08868		mg/Kg		89	70 - 130	12	35
Toluene	0.100	0.08298		mg/Kg		83	70 - 130	10	35
Ethylbenzene	0.100	0.08171		mg/Kg		82	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1647		mg/Kg		82	70 - 130	11	35
o-Xylene	0.100	0.08359		mg/Kg		84	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1018-32 MSD

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: SB-13-4

Prep Type: Total/NA

Prep Batch: 5832

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00202	U	0.0994	0.08730		mg/Kg					
Toluene	<0.00202	U	0.0994	0.08221		mg/Kg					
Ethylbenzene	<0.00202	U	0.0994	0.08218		mg/Kg					
m-Xylene & p-Xylene	<0.00404	U	0.199	0.1658		mg/Kg					

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

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

Lab Sample ID: 890-1018-32 MSD

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: SB-13-4

Prep Type: Total/NA

Prep Batch: 5832

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	<0.00202	U	0.0994	0.08415		mg/Kg					
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	119		70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								

Lab Sample ID: 890-1018-32 MS

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: SB-13-4

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-5838/1-A

Matrix: Solid

Analysis Batch: 5932

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 22:39	1
Diesel Range Organics (Over C10-C28)	15.41	J	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 22:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 22:39	1
Total TPH	15.41	J	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 22:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/29/21 16:22	08/01/21 22:39	1
o-Terphenyl	99		70 - 130				07/29/21 16:22	08/01/21 22:39	1

Lab Sample ID: LCS 880-5838/2-A

Matrix: Solid

Analysis Batch: 5932

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	824.4		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	988.9		mg/Kg		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	96		70 - 130				
o-Terphenyl	108		70 - 130				

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

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

Lab Sample ID: LCSD 880-5838/3-A

Matrix: Solid

Analysis Batch: 5932

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5838

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	881.4		mg/Kg		88	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	970.4		mg/Kg		97	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	105		70 - 130						

Lab Sample ID: 890-1018-1 MS

Matrix: Solid

Analysis Batch: 5932

Client Sample ID: SB-41-2

Prep Type: Total/NA

Prep Batch: 5838

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	16.0	J	996	806.6		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)	15.8	J B	996	928.5		mg/Kg		92	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	91		70 - 130								

Lab Sample ID: 890-1018-1 MSD

Matrix: Solid

Analysis Batch: 5932

Client Sample ID: SB-41-2

Prep Type: Total/NA

Prep Batch: 5838

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	16.0	J	996	807.0		mg/Kg		79	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	15.8	J B	996	895.3		mg/Kg		88	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	87		70 - 130								

Lab Sample ID: MB 880-5882/1-A

Matrix: Solid

Analysis Batch: 5915

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 12:00	1
Diesel Range Organics (Over C10-C28)	16.03	J	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 12:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 12:00	1
Total TPH	16.03	J	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 12:00	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

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

Lab Sample ID: MB 880-5882/1-A

Matrix: Solid

Analysis Batch: 5915

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5882

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	07/30/21 13:47	07/31/21 12:00	1
o-Terphenyl	106		70 - 130	07/30/21 13:47	07/31/21 12:00	1

Lab Sample ID: LCS 880-5882/2-A

Matrix: Solid

Analysis Batch: 5915

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	910.2		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1042		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-5882/3-A

Matrix: Solid

Analysis Batch: 5915

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5882

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	926.4		mg/Kg		93	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	983.2		mg/Kg		98	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-1018-21 MS

Matrix: Solid

Analysis Batch: 5915

Client Sample ID: SB-17-2

Prep Type: Total/NA

Prep Batch: 5882

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	996	863.1		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	912.3		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	87		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

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

Lab Sample ID: 890-1018-21 MSD

Matrix: Solid

Analysis Batch: 5915

Client Sample ID: SB-17-2

Prep Type: Total/NA

Prep Batch: 5882

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	996	983.5		mg/Kg		99	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1075		mg/Kg		108	70 - 130	16	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	104		70 - 130								

Lab Sample ID: MB 880-5902/1-A

Matrix: Solid

Analysis Batch: 5917

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 12:00	1
Diesel Range Organics (Over C10-C28)	16.04	J	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 12:00	1
Oil Range Organics (Over C28-C36)	17.41	J	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 12:00	1
Total TPH	33.45	J	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 12:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				07/30/21 14:36	07/31/21 12:00	1
o-Terphenyl	104		70 - 130				07/30/21 14:36	07/31/21 12:00	1

Lab Sample ID: LCS 880-5902/2-A

Matrix: Solid

Analysis Batch: 5917

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	802.8		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	892.5		mg/Kg		89	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	94		70 - 130						

Lab Sample ID: LCSD 880-5902/3-A

Matrix: Solid

Analysis Batch: 5917

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5902

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	868.9		mg/Kg		87	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	973.1		mg/Kg		97	70 - 130	9	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

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

Lab Sample ID: LCSD 880-5902/3-A

Matrix: Solid

Analysis Batch: 5917

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5902

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	99		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5810/1-A

Matrix: Solid

Analysis Batch: 5879

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			07/30/21 18:27	1

Lab Sample ID: LCS 880-5810/2-A

Matrix: Solid

Analysis Batch: 5879

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	243.7		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-5810/3-A

Matrix: Solid

Analysis Batch: 5879

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	243.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-5802/1-A

Matrix: Solid

Analysis Batch: 5880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			07/31/21 00:22	1

Lab Sample ID: LCS 880-5802/2-A

Matrix: Solid

Analysis Batch: 5880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.0		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-5802/3-A

Matrix: Solid

Analysis Batch: 5880

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	247.5		mg/Kg		99	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1018-8 MS

Matrix: Solid

Analysis Batch: 5880

Client Sample ID: SB-42-15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	60.3	F1	249	234.7	F1	mg/Kg		70	90 - 110

Lab Sample ID: 890-1018-8 MSD

Matrix: Solid

Analysis Batch: 5880

Client Sample ID: SB-42-15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	60.3	F1	249	234.6	F1	mg/Kg		70	90 - 110	0	20

Lab Sample ID: 890-1018-18 MS

Matrix: Solid

Analysis Batch: 5880

Client Sample ID: SB-20-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	21.1		250	253.4		mg/Kg		93	90 - 110

Lab Sample ID: 890-1018-18 MSD

Matrix: Solid

Analysis Batch: 5880

Client Sample ID: SB-20-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	21.1		250	254.1		mg/Kg		93	90 - 110	0	20

Lab Sample ID: MB 880-5803/1-A

Matrix: Solid

Analysis Batch: 5881

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			07/31/21 03:31	1

Lab Sample ID: LCS 880-5803/2-A

Matrix: Solid

Analysis Batch: 5881

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.0		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-5803/3-A

Matrix: Solid

Analysis Batch: 5881

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-5864/1-A

Matrix: Solid

Analysis Batch: 5903

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			07/31/21 06:39	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-5864/2-A

Matrix: Solid

Analysis Batch: 5903

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	248.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-5864/3-A

Matrix: Solid

Analysis Batch: 5903

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	250.1		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 890-1018-36 MS

Matrix: Solid

Analysis Batch: 5903

Client Sample ID: SB-13-30

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	190	F1	248	376.6	F1	mg/Kg		76	90 - 110

Lab Sample ID: 890-1018-36 MSD

Matrix: Solid

Analysis Batch: 5903

Client Sample ID: SB-13-30

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	190	F1	248	377.1	F1	mg/Kg		76	90 - 110	0	20

Lab Sample ID: MB 880-5865/1-A

Matrix: Solid

Analysis Batch: 5907

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			07/31/21 21:23	1

Lab Sample ID: LCS 880-5865/2-A

Matrix: Solid

Analysis Batch: 5907

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	256.5		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-5865/3-A

Matrix: Solid

Analysis Batch: 5907

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	257.0		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-6087/1-A

Matrix: Solid

Analysis Batch: 6088

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/05/21 02:06	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-6087/2-A

Matrix: Solid

Analysis Batch: 6088

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	248.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-6087/3-A

Matrix: Solid

Analysis Batch: 6088

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	249.5		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-6109/1-A

Matrix: Solid

Analysis Batch: 6194

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/08/21 13:21	1

Lab Sample ID: LCS 880-6109/2-A

Matrix: Solid

Analysis Batch: 6194

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	265.8		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-6109/3-A

Matrix: Solid

Analysis Batch: 6194

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	266.6		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

GC VOA

Prep Batch: 5758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-1	SB-41-2	Total/NA	Solid	5035	
890-1018-2	SB-41-4	Total/NA	Solid	5035	
890-1018-3	SB-41-10	Total/NA	Solid	5035	
890-1018-4	SB-41-15	Total/NA	Solid	5035	
890-1018-5	SB-42-2	Total/NA	Solid	5035	
890-1018-6	SB-42-4	Total/NA	Solid	5035	
890-1018-7	SB-42-10	Total/NA	Solid	5035	
890-1018-8	SB-42-15	Total/NA	Solid	5035	
890-1018-9	SB-23-2	Total/NA	Solid	5035	
890-1018-10	SB-23-4	Total/NA	Solid	5035	
890-1018-11	SB-39-10	Total/NA	Solid	5035	
890-1018-12	SB-39-15	Total/NA	Solid	5035	
MB 880-5758/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5758/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5758/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 5782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-1	SB-41-2	Total/NA	Solid	8021B	5758
890-1018-2	SB-41-4	Total/NA	Solid	8021B	5758
890-1018-3	SB-41-10	Total/NA	Solid	8021B	5758
890-1018-4	SB-41-15	Total/NA	Solid	8021B	5758
890-1018-5	SB-42-2	Total/NA	Solid	8021B	5758
890-1018-6	SB-42-4	Total/NA	Solid	8021B	5758
890-1018-7	SB-42-10	Total/NA	Solid	8021B	5758
890-1018-8	SB-42-15	Total/NA	Solid	8021B	5758
890-1018-9	SB-23-2	Total/NA	Solid	8021B	5758
890-1018-10	SB-23-4	Total/NA	Solid	8021B	5758
890-1018-11	SB-39-10	Total/NA	Solid	8021B	5758
890-1018-12	SB-39-15	Total/NA	Solid	8021B	5758
890-1018-13	SB-27-2	Total/NA	Solid	8021B	5821
890-1018-14	SB-27-4	Total/NA	Solid	8021B	5821
890-1018-15	SB-27-10	Total/NA	Solid	8021B	5821
890-1018-16	SB-27-15	Total/NA	Solid	8021B	5821
890-1018-17	SB-20-2	Total/NA	Solid	8021B	5821
890-1018-18	SB-20-4	Total/NA	Solid	8021B	5821
890-1018-19	SB-20-10	Total/NA	Solid	8021B	5821
890-1018-20	SB-20-15	Total/NA	Solid	8021B	5821
890-1018-21	SB-17-2	Total/NA	Solid	8021B	5821
890-1018-22	SB-17-4	Total/NA	Solid	8021B	5821
890-1018-23	SB-17-10	Total/NA	Solid	8021B	5821
890-1018-24	SB-17-15	Total/NA	Solid	8021B	5821
890-1018-25	SB-13-2	Total/NA	Solid	8021B	5821
890-1018-27	SB-13-10	Total/NA	Solid	8021B	5821
890-1018-29	SB-39-2	Total/NA	Solid	8021B	5821
890-1018-30	SB-39-4	Total/NA	Solid	8021B	5821
890-1018-31	SB-23-10	Total/NA	Solid	8021B	5821
MB 880-5758/5-A	Method Blank	Total/NA	Solid	8021B	5758
MB 880-5821/5-A	Method Blank	Total/NA	Solid	8021B	5821
LCS 880-5758/1-A	Lab Control Sample	Total/NA	Solid	8021B	5758
LCS 880-5821/1-A	Lab Control Sample	Total/NA	Solid	8021B	5821

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

GC VOA (Continued)

Analysis Batch: 5782 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-5758/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5758
LCSD 880-5821/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5821
890-1018-13 MS	SB-27-2	Total/NA	Solid	8021B	5821
890-1018-13 MSD	SB-27-2	Total/NA	Solid	8021B	5821

Prep Batch: 5818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5818/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 5821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-13	SB-27-2	Total/NA	Solid	5035	
890-1018-14	SB-27-4	Total/NA	Solid	5035	
890-1018-15	SB-27-10	Total/NA	Solid	5035	
890-1018-16	SB-27-15	Total/NA	Solid	5035	
890-1018-17	SB-20-2	Total/NA	Solid	5035	
890-1018-18	SB-20-4	Total/NA	Solid	5035	
890-1018-19	SB-20-10	Total/NA	Solid	5035	
890-1018-20	SB-20-15	Total/NA	Solid	5035	
890-1018-21	SB-17-2	Total/NA	Solid	5035	
890-1018-22	SB-17-4	Total/NA	Solid	5035	
890-1018-23	SB-17-10	Total/NA	Solid	5035	
890-1018-24	SB-17-15	Total/NA	Solid	5035	
890-1018-25	SB-13-2	Total/NA	Solid	5035	
890-1018-27	SB-13-10	Total/NA	Solid	5035	
890-1018-29	SB-39-2	Total/NA	Solid	5035	
890-1018-30	SB-39-4	Total/NA	Solid	5035	
890-1018-31	SB-23-10	Total/NA	Solid	5035	
MB 880-5821/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5821/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5821/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1018-13 MS	SB-27-2	Total/NA	Solid	5035	
890-1018-13 MSD	SB-27-2	Total/NA	Solid	5035	

Prep Batch: 5832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-32	SB-13-4	Total/NA	Solid	5035	
890-1018-35	SB-13-18	Total/NA	Solid	5035	
890-1018-36	SB-13-30	Total/NA	Solid	5035	
890-1018-37	SB-40-2	Total/NA	Solid	5035	
890-1018-38	SB-40-4	Total/NA	Solid	5035	
890-1018-39	SB-40-10	Total/NA	Solid	5035	
890-1018-40	SB-40-15	Total/NA	Solid	5035	
890-1018-42	SB-21-2	Total/NA	Solid	5035	
890-1018-43	SB-21-4	Total/NA	Solid	5035	
890-1018-44	SB-21-10	Total/NA	Solid	5035	
890-1018-46	SB-21-20	Total/NA	Solid	5035	
890-1018-47	SB-32-2	Total/NA	Solid	5035	
890-1018-48	SB-32-4	Total/NA	Solid	5035	
890-1018-49	SB-32-10	Total/NA	Solid	5035	
890-1018-50	SB-32-15	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

GC VOA (Continued)

Prep Batch: 5832 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5832/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5832/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5832/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1018-32 MSD	SB-13-4	Total/NA	Solid	5035	

Analysis Batch: 5858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-32	SB-13-4	Total/NA	Solid	8021B	5832
890-1018-35	SB-13-18	Total/NA	Solid	8021B	5832
890-1018-36	SB-13-30	Total/NA	Solid	8021B	5832
890-1018-37	SB-40-2	Total/NA	Solid	8021B	5832
890-1018-38	SB-40-4	Total/NA	Solid	8021B	5832
890-1018-39	SB-40-10	Total/NA	Solid	8021B	5832
890-1018-40	SB-40-15	Total/NA	Solid	8021B	5832
890-1018-42	SB-21-2	Total/NA	Solid	8021B	5832
890-1018-43	SB-21-4	Total/NA	Solid	8021B	5832
890-1018-44	SB-21-10	Total/NA	Solid	8021B	5832
890-1018-46	SB-21-20	Total/NA	Solid	8021B	5832
890-1018-47	SB-32-2	Total/NA	Solid	8021B	5832
890-1018-48	SB-32-4	Total/NA	Solid	8021B	5832
890-1018-49	SB-32-10	Total/NA	Solid	8021B	5832
890-1018-50	SB-32-15	Total/NA	Solid	8021B	5832
MB 880-5818/5-A	Method Blank	Total/NA	Solid	8021B	5818
MB 880-5832/5-A	Method Blank	Total/NA	Solid	8021B	5832
LCS 880-5832/1-A	Lab Control Sample	Total/NA	Solid	8021B	5832
LCSD 880-5832/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5832
890-1018-32 MS	SB-13-4	Total/NA	Solid	8021B	
890-1018-32 MSD	SB-13-4	Total/NA	Solid	8021B	5832

GC Semi VOA

Prep Batch: 5838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-1	SB-41-2	Total/NA	Solid	8015NM Prep	
890-1018-2	SB-41-4	Total/NA	Solid	8015NM Prep	
890-1018-3	SB-41-10	Total/NA	Solid	8015NM Prep	
890-1018-4	SB-41-15	Total/NA	Solid	8015NM Prep	
890-1018-5	SB-42-2	Total/NA	Solid	8015NM Prep	
890-1018-6	SB-42-4	Total/NA	Solid	8015NM Prep	
890-1018-7	SB-42-10	Total/NA	Solid	8015NM Prep	
890-1018-8	SB-42-15	Total/NA	Solid	8015NM Prep	
890-1018-9	SB-23-2	Total/NA	Solid	8015NM Prep	
890-1018-10	SB-23-4	Total/NA	Solid	8015NM Prep	
890-1018-11	SB-39-10	Total/NA	Solid	8015NM Prep	
890-1018-12	SB-39-15	Total/NA	Solid	8015NM Prep	
890-1018-13	SB-27-2	Total/NA	Solid	8015NM Prep	
890-1018-14	SB-27-4	Total/NA	Solid	8015NM Prep	
890-1018-15	SB-27-10	Total/NA	Solid	8015NM Prep	
890-1018-16	SB-27-15	Total/NA	Solid	8015NM Prep	
890-1018-17	SB-20-2	Total/NA	Solid	8015NM Prep	
890-1018-18	SB-20-4	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

GC Semi VOA (Continued)

Prep Batch: 5838 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-19	SB-20-10	Total/NA	Solid	8015NM Prep	
890-1018-20	SB-20-15	Total/NA	Solid	8015NM Prep	
MB 880-5838/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5838/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5838/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1018-1 MS	SB-41-2	Total/NA	Solid	8015NM Prep	
890-1018-1 MSD	SB-41-2	Total/NA	Solid	8015NM Prep	

Prep Batch: 5882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-21	SB-17-2	Total/NA	Solid	8015NM Prep	
890-1018-22	SB-17-4	Total/NA	Solid	8015NM Prep	
890-1018-23	SB-17-10	Total/NA	Solid	8015NM Prep	
890-1018-24	SB-17-15	Total/NA	Solid	8015NM Prep	
890-1018-25	SB-13-2	Total/NA	Solid	8015NM Prep	
890-1018-27	SB-13-10	Total/NA	Solid	8015NM Prep	
890-1018-29	SB-39-2	Total/NA	Solid	8015NM Prep	
890-1018-30	SB-39-4	Total/NA	Solid	8015NM Prep	
890-1018-31	SB-23-10	Total/NA	Solid	8015NM Prep	
890-1018-32	SB-13-4	Total/NA	Solid	8015NM Prep	
890-1018-35	SB-13-18	Total/NA	Solid	8015NM Prep	
890-1018-36	SB-13-30	Total/NA	Solid	8015NM Prep	
890-1018-37	SB-40-2	Total/NA	Solid	8015NM Prep	
890-1018-38	SB-40-4	Total/NA	Solid	8015NM Prep	
890-1018-39	SB-40-10	Total/NA	Solid	8015NM Prep	
890-1018-40	SB-40-15	Total/NA	Solid	8015NM Prep	
890-1018-42	SB-21-2	Total/NA	Solid	8015NM Prep	
890-1018-43	SB-21-4	Total/NA	Solid	8015NM Prep	
MB 880-5882/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5882/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1018-21 MS	SB-17-2	Total/NA	Solid	8015NM Prep	
890-1018-21 MSD	SB-17-2	Total/NA	Solid	8015NM Prep	

Prep Batch: 5902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-44	SB-21-10	Total/NA	Solid	8015NM Prep	
890-1018-47	SB-32-2	Total/NA	Solid	8015NM Prep	
890-1018-48	SB-32-4	Total/NA	Solid	8015NM Prep	
890-1018-49	SB-32-10	Total/NA	Solid	8015NM Prep	
890-1018-50	SB-32-15	Total/NA	Solid	8015NM Prep	
MB 880-5902/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5902/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5902/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-21	SB-17-2	Total/NA	Solid	8015B NM	5882
890-1018-22	SB-17-4	Total/NA	Solid	8015B NM	5882
890-1018-23	SB-17-10	Total/NA	Solid	8015B NM	5882
890-1018-24	SB-17-15	Total/NA	Solid	8015B NM	5882

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 5915 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-25	SB-13-2	Total/NA	Solid	8015B NM	5882
890-1018-27	SB-13-10	Total/NA	Solid	8015B NM	5882
890-1018-29	SB-39-2	Total/NA	Solid	8015B NM	5882
890-1018-30	SB-39-4	Total/NA	Solid	8015B NM	5882
890-1018-31	SB-23-10	Total/NA	Solid	8015B NM	5882
890-1018-32	SB-13-4	Total/NA	Solid	8015B NM	5882
890-1018-35	SB-13-18	Total/NA	Solid	8015B NM	5882
890-1018-36	SB-13-30	Total/NA	Solid	8015B NM	5882
890-1018-37	SB-40-2	Total/NA	Solid	8015B NM	5882
890-1018-38	SB-40-4	Total/NA	Solid	8015B NM	5882
890-1018-39	SB-40-10	Total/NA	Solid	8015B NM	5882
890-1018-40	SB-40-15	Total/NA	Solid	8015B NM	5882
890-1018-42	SB-21-2	Total/NA	Solid	8015B NM	5882
890-1018-43	SB-21-4	Total/NA	Solid	8015B NM	5882
MB 880-5882/1-A	Method Blank	Total/NA	Solid	8015B NM	5882
LCS 880-5882/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5882
LCSD 880-5882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5882
890-1018-21 MS	SB-17-2	Total/NA	Solid	8015B NM	5882
890-1018-21 MSD	SB-17-2	Total/NA	Solid	8015B NM	5882

Analysis Batch: 5917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-44	SB-21-10	Total/NA	Solid	8015B NM	5902
890-1018-47	SB-32-2	Total/NA	Solid	8015B NM	5902
890-1018-48	SB-32-4	Total/NA	Solid	8015B NM	5902
890-1018-49	SB-32-10	Total/NA	Solid	8015B NM	5902
890-1018-50	SB-32-15	Total/NA	Solid	8015B NM	5902
MB 880-5902/1-A	Method Blank	Total/NA	Solid	8015B NM	5902
LCS 880-5902/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5902
LCSD 880-5902/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5902

Analysis Batch: 5932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-1	SB-41-2	Total/NA	Solid	8015B NM	5838
890-1018-2	SB-41-4	Total/NA	Solid	8015B NM	5838
890-1018-3	SB-41-10	Total/NA	Solid	8015B NM	5838
890-1018-4	SB-41-15	Total/NA	Solid	8015B NM	5838
890-1018-5	SB-42-2	Total/NA	Solid	8015B NM	5838
890-1018-6	SB-42-4	Total/NA	Solid	8015B NM	5838
890-1018-7	SB-42-10	Total/NA	Solid	8015B NM	5838
890-1018-8	SB-42-15	Total/NA	Solid	8015B NM	5838
890-1018-9	SB-23-2	Total/NA	Solid	8015B NM	5838
890-1018-10	SB-23-4	Total/NA	Solid	8015B NM	5838
890-1018-11	SB-39-10	Total/NA	Solid	8015B NM	5838
890-1018-12	SB-39-15	Total/NA	Solid	8015B NM	5838
890-1018-13	SB-27-2	Total/NA	Solid	8015B NM	5838
890-1018-14	SB-27-4	Total/NA	Solid	8015B NM	5838
890-1018-15	SB-27-10	Total/NA	Solid	8015B NM	5838
890-1018-16	SB-27-15	Total/NA	Solid	8015B NM	5838
890-1018-17	SB-20-2	Total/NA	Solid	8015B NM	5838
890-1018-18	SB-20-4	Total/NA	Solid	8015B NM	5838

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 5932 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-19	SB-20-10	Total/NA	Solid	8015B NM	5838
890-1018-20	SB-20-15	Total/NA	Solid	8015B NM	5838
MB 880-5838/1-A	Method Blank	Total/NA	Solid	8015B NM	5838
LCS 880-5838/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5838
LCSD 880-5838/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5838
890-1018-1 MS	SB-41-2	Total/NA	Solid	8015B NM	5838
890-1018-1 MSD	SB-41-2	Total/NA	Solid	8015B NM	5838

Analysis Batch: 6001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-46	SB-21-20	Total/NA	Solid	8015B NM	6026

Prep Batch: 6026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-46	SB-21-20	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 5802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-8	SB-42-15	Soluble	Solid	DI Leach	
890-1018-9	SB-23-2	Soluble	Solid	DI Leach	
890-1018-10	SB-23-4	Soluble	Solid	DI Leach	
890-1018-11	SB-39-10	Soluble	Solid	DI Leach	
890-1018-12	SB-39-15	Soluble	Solid	DI Leach	
890-1018-13	SB-27-2	Soluble	Solid	DI Leach	
890-1018-14	SB-27-4	Soluble	Solid	DI Leach	
890-1018-15	SB-27-10	Soluble	Solid	DI Leach	
890-1018-16	SB-27-15	Soluble	Solid	DI Leach	
890-1018-17	SB-20-2	Soluble	Solid	DI Leach	
890-1018-18	SB-20-4	Soluble	Solid	DI Leach	
890-1018-19	SB-20-10	Soluble	Solid	DI Leach	
890-1018-20	SB-20-15	Soluble	Solid	DI Leach	
890-1018-21	SB-17-2	Soluble	Solid	DI Leach	
890-1018-22	SB-17-4	Soluble	Solid	DI Leach	
890-1018-23	SB-17-10	Soluble	Solid	DI Leach	
890-1018-24	SB-17-15	Soluble	Solid	DI Leach	
890-1018-25	SB-13-2	Soluble	Solid	DI Leach	
890-1018-27	SB-13-10	Soluble	Solid	DI Leach	
MB 880-5802/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5802/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5802/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1018-8 MS	SB-42-15	Soluble	Solid	DI Leach	
890-1018-8 MSD	SB-42-15	Soluble	Solid	DI Leach	
890-1018-18 MS	SB-20-4	Soluble	Solid	DI Leach	
890-1018-18 MSD	SB-20-4	Soluble	Solid	DI Leach	

Leach Batch: 5803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-29	SB-39-2	Soluble	Solid	DI Leach	
890-1018-30	SB-39-4	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

HPLC/IC (Continued)

Leach Batch: 5803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-31	SB-23-10	Soluble	Solid	DI Leach	
MB 880-5803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 5810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-1	SB-41-2	Soluble	Solid	DI Leach	
890-1018-2	SB-41-4	Soluble	Solid	DI Leach	
890-1018-3	SB-41-10	Soluble	Solid	DI Leach	
890-1018-4	SB-41-15	Soluble	Solid	DI Leach	
890-1018-5	SB-42-2	Soluble	Solid	DI Leach	
890-1018-6	SB-42-4	Soluble	Solid	DI Leach	
890-1018-7	SB-42-10	Soluble	Solid	DI Leach	
MB 880-5810/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5810/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5810/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 5864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-32	SB-13-4	Soluble	Solid	DI Leach	
890-1018-35	SB-13-18	Soluble	Solid	DI Leach	
890-1018-36	SB-13-30	Soluble	Solid	DI Leach	
890-1018-37	SB-40-2	Soluble	Solid	DI Leach	
890-1018-38	SB-40-4	Soluble	Solid	DI Leach	
890-1018-39	SB-40-10	Soluble	Solid	DI Leach	
890-1018-40	SB-40-15	Soluble	Solid	DI Leach	
890-1018-42	SB-21-2	Soluble	Solid	DI Leach	
890-1018-43	SB-21-4	Soluble	Solid	DI Leach	
890-1018-44	SB-21-10	Soluble	Solid	DI Leach	
MB 880-5864/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5864/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5864/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1018-36 MS	SB-13-30	Soluble	Solid	DI Leach	
890-1018-36 MSD	SB-13-30	Soluble	Solid	DI Leach	

Leach Batch: 5865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-47	SB-32-2	Soluble	Solid	DI Leach	
890-1018-48	SB-32-4	Soluble	Solid	DI Leach	
890-1018-49	SB-32-10	Soluble	Solid	DI Leach	
890-1018-50	SB-32-15	Soluble	Solid	DI Leach	
MB 880-5865/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5865/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5865/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-1	SB-41-2	Soluble	Solid	300.0	5810
890-1018-2	SB-41-4	Soluble	Solid	300.0	5810
890-1018-3	SB-41-10	Soluble	Solid	300.0	5810

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 5879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-4	SB-41-15	Soluble	Solid	300.0	5810
890-1018-5	SB-42-2	Soluble	Solid	300.0	5810
890-1018-6	SB-42-4	Soluble	Solid	300.0	5810
890-1018-7	SB-42-10	Soluble	Solid	300.0	5810
MB 880-5810/1-A	Method Blank	Soluble	Solid	300.0	5810
LCS 880-5810/2-A	Lab Control Sample	Soluble	Solid	300.0	5810
LCSD 880-5810/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5810

Analysis Batch: 5880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-8	SB-42-15	Soluble	Solid	300.0	5802
890-1018-9	SB-23-2	Soluble	Solid	300.0	5802
890-1018-10	SB-23-4	Soluble	Solid	300.0	5802
890-1018-11	SB-39-10	Soluble	Solid	300.0	5802
890-1018-12	SB-39-15	Soluble	Solid	300.0	5802
890-1018-13	SB-27-2	Soluble	Solid	300.0	5802
890-1018-14	SB-27-4	Soluble	Solid	300.0	5802
890-1018-15	SB-27-10	Soluble	Solid	300.0	5802
890-1018-16	SB-27-15	Soluble	Solid	300.0	5802
890-1018-17	SB-20-2	Soluble	Solid	300.0	5802
890-1018-18	SB-20-4	Soluble	Solid	300.0	5802
890-1018-19	SB-20-10	Soluble	Solid	300.0	5802
890-1018-20	SB-20-15	Soluble	Solid	300.0	5802
890-1018-21	SB-17-2	Soluble	Solid	300.0	5802
890-1018-22	SB-17-4	Soluble	Solid	300.0	5802
890-1018-23	SB-17-10	Soluble	Solid	300.0	5802
890-1018-24	SB-17-15	Soluble	Solid	300.0	5802
890-1018-25	SB-13-2	Soluble	Solid	300.0	5802
890-1018-27	SB-13-10	Soluble	Solid	300.0	5802
MB 880-5802/1-A	Method Blank	Soluble	Solid	300.0	5802
LCS 880-5802/2-A	Lab Control Sample	Soluble	Solid	300.0	5802
LCSD 880-5802/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5802
890-1018-8 MS	SB-42-15	Soluble	Solid	300.0	5802
890-1018-8 MSD	SB-42-15	Soluble	Solid	300.0	5802
890-1018-18 MS	SB-20-4	Soluble	Solid	300.0	5802
890-1018-18 MSD	SB-20-4	Soluble	Solid	300.0	5802

Analysis Batch: 5881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-29	SB-39-2	Soluble	Solid	300.0	5803
890-1018-30	SB-39-4	Soluble	Solid	300.0	5803
890-1018-31	SB-23-10	Soluble	Solid	300.0	5803
MB 880-5803/1-A	Method Blank	Soluble	Solid	300.0	5803
LCS 880-5803/2-A	Lab Control Sample	Soluble	Solid	300.0	5803
LCSD 880-5803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5803

Analysis Batch: 5903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-32	SB-13-4	Soluble	Solid	300.0	5864
890-1018-35	SB-13-18	Soluble	Solid	300.0	5864
890-1018-36	SB-13-30	Soluble	Solid	300.0	5864

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 5903 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-37	SB-40-2	Soluble	Solid	300.0	5864
890-1018-38	SB-40-4	Soluble	Solid	300.0	5864
890-1018-39	SB-40-10	Soluble	Solid	300.0	5864
890-1018-40	SB-40-15	Soluble	Solid	300.0	5864
890-1018-42	SB-21-2	Soluble	Solid	300.0	5864
890-1018-43	SB-21-4	Soluble	Solid	300.0	5864
890-1018-44	SB-21-10	Soluble	Solid	300.0	5864
MB 880-5864/1-A	Method Blank	Soluble	Solid	300.0	5864
LCS 880-5864/2-A	Lab Control Sample	Soluble	Solid	300.0	5864
LCSD 880-5864/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5864
890-1018-36 MS	SB-13-30	Soluble	Solid	300.0	5864
890-1018-36 MSD	SB-13-30	Soluble	Solid	300.0	5864

Analysis Batch: 5907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-47	SB-32-2	Soluble	Solid	300.0	5865
890-1018-48	SB-32-4	Soluble	Solid	300.0	5865
890-1018-49	SB-32-10	Soluble	Solid	300.0	5865
890-1018-50	SB-32-15	Soluble	Solid	300.0	5865
MB 880-5865/1-A	Method Blank	Soluble	Solid	300.0	5865
LCS 880-5865/2-A	Lab Control Sample	Soluble	Solid	300.0	5865
LCSD 880-5865/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5865

Leach Batch: 6087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-46	SB-21-20	Soluble	Solid	DI Leach	
MB 880-6087/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6087/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6087/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 6088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-46	SB-21-20	Soluble	Solid	300.0	6087
MB 880-6087/1-A	Method Blank	Soluble	Solid	300.0	6087
LCS 880-6087/2-A	Lab Control Sample	Soluble	Solid	300.0	6087
LCSD 880-6087/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6087

Leach Batch: 6109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6109/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6109/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6109/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 6194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6109/1-A	Method Blank	Soluble	Solid	300.0	6109
LCS 880-6109/2-A	Lab Control Sample	Soluble	Solid	300.0	6109
LCSD 880-6109/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6109

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-41-2

Lab Sample ID: 890-1018-1

Date Collected: 07/27/21 12:35

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 17:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 23:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 20:37	CH	XEN MID

Client Sample ID: SB-41-4

Lab Sample ID: 890-1018-2

Date Collected: 07/27/21 12:40

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 17:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 00:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 20:42	CH	XEN MID

Client Sample ID: SB-41-10

Lab Sample ID: 890-1018-3

Date Collected: 07/27/21 12:45

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 19:19	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 01:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 20:47	CH	XEN MID

Client Sample ID: SB-41-15

Lab Sample ID: 890-1018-4

Date Collected: 07/27/21 12:50

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 19:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 01:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 20:53	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-42-2

Lab Sample ID: 890-1018-5

Date Collected: 07/27/21 14:15

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 20:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 01:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 20:58	CH	XEN MID

Client Sample ID: SB-42-4

Lab Sample ID: 890-1018-6

Date Collected: 07/27/21 14:20

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 20:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 02:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 21:03	CH	XEN MID

Client Sample ID: SB-42-10

Lab Sample ID: 890-1018-7

Date Collected: 07/27/21 14:25

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 20:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 02:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 21:09	CH	XEN MID

Client Sample ID: SB-42-15

Lab Sample ID: 890-1018-8

Date Collected: 07/27/21 14:30

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 21:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 02:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 00:38	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-23-2

Lab Sample ID: 890-1018-9

Date Collected: 07/27/21 15:00

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 21:22	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 03:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 00:55	CH	XEN MID

Client Sample ID: SB-23-4

Lab Sample ID: 890-1018-10

Date Collected: 07/27/21 15:05

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 21:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 03:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:00	CH	XEN MID

Client Sample ID: SB-39-10

Lab Sample ID: 890-1018-11

Date Collected: 07/26/21 13:20

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 22:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 04:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:05	CH	XEN MID

Client Sample ID: SB-39-15

Lab Sample ID: 890-1018-12

Date Collected: 07/26/21 13:25

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 22:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 04:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:11	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-27-2

Lab Sample ID: 890-1018-13

Date Collected: 07/26/21 09:30

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 02:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 04:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:27	CH	XEN MID

Client Sample ID: SB-27-4

Lab Sample ID: 890-1018-14

Date Collected: 07/26/21 16:30

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 02:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 05:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:32	CH	XEN MID

Client Sample ID: SB-27-10

Lab Sample ID: 890-1018-15

Date Collected: 07/26/21 16:35

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 02:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 05:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:38	CH	XEN MID

Client Sample ID: SB-27-15

Lab Sample ID: 890-1018-16

Date Collected: 07/26/21 16:40

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 03:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 05:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:43	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-20-2

Lab Sample ID: 890-1018-17

Date Collected: 07/27/21 09:00

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 03:22	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 06:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:48	CH	XEN MID

Client Sample ID: SB-20-4

Lab Sample ID: 890-1018-18

Date Collected: 07/27/21 09:05

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 03:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 06:38	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:54	CH	XEN MID

Client Sample ID: SB-20-10

Lab Sample ID: 890-1018-19

Date Collected: 07/27/21 09:10

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 04:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 06:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 02:10	CH	XEN MID

Client Sample ID: SB-20-15

Lab Sample ID: 890-1018-20

Date Collected: 07/27/21 09:15

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 04:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 07:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		5			5880	07/31/21 02:15	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-17-2

Lab Sample ID: 890-1018-21

Date Collected: 07/26/21 09:20

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 04:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 13:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 02:32	CH	XEN MID

Client Sample ID: SB-17-4

Lab Sample ID: 890-1018-22

Date Collected: 07/26/21 11:30

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 05:04	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 14:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 02:37	CH	XEN MID

Client Sample ID: SB-17-10

Lab Sample ID: 890-1018-23

Date Collected: 07/26/21 11:35

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 06:53	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 14:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 02:42	CH	XEN MID

Client Sample ID: SB-17-15

Lab Sample ID: 890-1018-24

Date Collected: 07/26/21 11:40

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 07:13	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 14:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 02:48	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-13-2

Lab Sample ID: 890-1018-25

Date Collected: 07/25/21 09:00

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 07:34	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 15:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 02:53	CH	XEN MID

Client Sample ID: SB-13-10

Lab Sample ID: 890-1018-27

Date Collected: 07/25/21 09:10

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 08:14	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 15:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 03:04	CH	XEN MID

Client Sample ID: SB-39-2

Lab Sample ID: 890-1018-29

Date Collected: 07/26/21 09:25

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 08:55	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5803	07/29/21 12:36	CH	XEN MID
Soluble	Analysis	300.0		1			5881	07/31/21 06:02	CH	XEN MID

Client Sample ID: SB-39-4

Lab Sample ID: 890-1018-30

Date Collected: 07/26/21 13:15

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 09:16	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 16:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5803	07/29/21 12:36	CH	XEN MID
Soluble	Analysis	300.0		1			5881	07/31/21 06:07	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-23-10

Lab Sample ID: 890-1018-31

Date Collected: 07/27/21 15:10

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 09:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 16:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5803	07/29/21 12:36	CH	XEN MID
Soluble	Analysis	300.0		1			5881	07/31/21 06:12	CH	XEN MID

Client Sample ID: SB-13-4

Lab Sample ID: 890-1018-32

Date Collected: 07/25/21 09:05

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 00:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 17:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 07:49	CH	XEN MID

Client Sample ID: SB-13-18

Lab Sample ID: 890-1018-35

Date Collected: 07/25/21 09:25

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 01:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:06	CH	XEN MID

Client Sample ID: SB-13-30

Lab Sample ID: 890-1018-36

Date Collected: 07/25/21 09:30

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 02:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:11	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-40-2

Lab Sample ID: 890-1018-37

Date Collected: 07/26/21 16:50

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 02:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 19:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:27	CH	XEN MID

Client Sample ID: SB-40-4

Lab Sample ID: 890-1018-38

Date Collected: 07/26/21 16:55

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 02:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:33	CH	XEN MID

Client Sample ID: SB-40-10

Lab Sample ID: 890-1018-39

Date Collected: 07/26/21 17:00

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 03:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 19:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:49	CH	XEN MID

Client Sample ID: SB-40-15

Lab Sample ID: 890-1018-40

Date Collected: 07/26/21 17:05

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 03:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 20:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:54	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-21-2

Lab Sample ID: 890-1018-42

Date Collected: 07/27/21 10:30

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 05:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 20:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:59	CH	XEN MID

Client Sample ID: SB-21-4

Lab Sample ID: 890-1018-43

Date Collected: 07/27/21 10:35

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 05:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 20:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 09:05	CH	XEN MID

Client Sample ID: SB-21-10

Lab Sample ID: 890-1018-44

Date Collected: 07/27/21 10:40

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 05:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5902	07/30/21 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	07/31/21 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		10			5903	07/31/21 09:10	CH	XEN MID

Client Sample ID: SB-21-20

Lab Sample ID: 890-1018-46

Date Collected: 07/27/21 10:50

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 06:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6026	08/03/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6001	08/04/21 00:40	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6087	08/04/21 16:00	CH	XEN MID
Soluble	Analysis	300.0		5			6088	08/05/21 04:37	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-32-2

Lab Sample ID: 890-1018-47

Date Collected: 07/27/21 15:20

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 06:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5902	07/30/21 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	07/31/21 16:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5865	07/30/21 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			5907	07/31/21 23:48	CH	XEN MID

Client Sample ID: SB-32-4

Lab Sample ID: 890-1018-48

Date Collected: 07/27/21 15:25

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 07:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5902	07/30/21 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	07/31/21 16:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5865	07/30/21 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			5907	07/31/21 23:54	CH	XEN MID

Client Sample ID: SB-32-10

Lab Sample ID: 890-1018-49

Date Collected: 07/27/21 15:30

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 07:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5902	07/30/21 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	07/31/21 17:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5865	07/30/21 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			5907	07/31/21 23:59	CH	XEN MID

Client Sample ID: SB-32-15

Lab Sample ID: 890-1018-50

Date Collected: 07/27/21 15:35

Matrix: Solid

Date Received: 07/28/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 07:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5902	07/30/21 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	07/31/21 17:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5865	07/30/21 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			5907	08/01/21 00:05	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Eurofins Xenco, Carlsbad

Method Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1018-1	SB-41-2	Solid	07/27/21 12:35	07/28/21 11:45
890-1018-2	SB-41-4	Solid	07/27/21 12:40	07/28/21 11:45
890-1018-3	SB-41-10	Solid	07/27/21 12:45	07/28/21 11:45
890-1018-4	SB-41-15	Solid	07/27/21 12:50	07/28/21 11:45
890-1018-5	SB-42-2	Solid	07/27/21 14:15	07/28/21 11:45
890-1018-6	SB-42-4	Solid	07/27/21 14:20	07/28/21 11:45
890-1018-7	SB-42-10	Solid	07/27/21 14:25	07/28/21 11:45
890-1018-8	SB-42-15	Solid	07/27/21 14:30	07/28/21 11:45
890-1018-9	SB-23-2	Solid	07/27/21 15:00	07/28/21 11:45
890-1018-10	SB-23-4	Solid	07/27/21 15:05	07/28/21 11:45
890-1018-11	SB-39-10	Solid	07/26/21 13:20	07/28/21 11:45
890-1018-12	SB-39-15	Solid	07/26/21 13:25	07/28/21 11:45
890-1018-13	SB-27-2	Solid	07/26/21 09:30	07/28/21 11:45
890-1018-14	SB-27-4	Solid	07/26/21 16:30	07/28/21 11:45
890-1018-15	SB-27-10	Solid	07/26/21 16:35	07/28/21 11:45
890-1018-16	SB-27-15	Solid	07/26/21 16:40	07/28/21 11:45
890-1018-17	SB-20-2	Solid	07/27/21 09:00	07/28/21 11:45
890-1018-18	SB-20-4	Solid	07/27/21 09:05	07/28/21 11:45
890-1018-19	SB-20-10	Solid	07/27/21 09:10	07/28/21 11:45
890-1018-20	SB-20-15	Solid	07/27/21 09:15	07/28/21 11:45
890-1018-21	SB-17-2	Solid	07/26/21 09:20	07/28/21 11:45
890-1018-22	SB-17-4	Solid	07/26/21 11:30	07/28/21 11:45
890-1018-23	SB-17-10	Solid	07/26/21 11:35	07/28/21 11:45
890-1018-24	SB-17-15	Solid	07/26/21 11:40	07/28/21 11:45
890-1018-25	SB-13-2	Solid	07/25/21 09:00	07/28/21 11:45
890-1018-27	SB-13-10	Solid	07/25/21 09:10	07/28/21 11:45
890-1018-29	SB-39-2	Solid	07/26/21 09:25	07/28/21 11:45
890-1018-30	SB-39-4	Solid	07/26/21 13:15	07/28/21 11:45
890-1018-31	SB-23-10	Solid	07/27/21 15:10	07/28/21 11:45
890-1018-32	SB-13-4	Solid	07/25/21 09:05	07/28/21 11:45
890-1018-35	SB-13-18	Solid	07/25/21 09:25	07/28/21 11:45
890-1018-36	SB-13-30	Solid	07/25/21 09:30	07/28/21 11:45
890-1018-37	SB-40-2	Solid	07/26/21 16:50	07/28/21 11:45
890-1018-38	SB-40-4	Solid	07/26/21 16:55	07/28/21 11:45
890-1018-39	SB-40-10	Solid	07/26/21 17:00	07/28/21 11:45
890-1018-40	SB-40-15	Solid	07/26/21 17:05	07/28/21 11:45
890-1018-42	SB-21-2	Solid	07/27/21 10:30	07/28/21 11:45
890-1018-43	SB-21-4	Solid	07/27/21 10:35	07/28/21 11:45
890-1018-44	SB-21-10	Solid	07/27/21 10:40	07/28/21 11:45
890-1018-46	SB-21-20	Solid	07/27/21 10:50	07/28/21 11:45
890-1018-47	SB-32-2	Solid	07/27/21 15:20	07/28/21 11:45
890-1018-48	SB-32-4	Solid	07/27/21 15:25	07/28/21 11:45
890-1018-49	SB-32-10	Solid	07/27/21 15:30	07/28/21 11:45
890-1018-50	SB-32-15	Solid	07/27/21 15:35	07/28/21 11:45



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 958-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 5

Project Manager:	Becky Blackell	Bill to: (if different)	Jacey Kennedy
Company Name:	CHD	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	432 291 2914	Email:	Becky.Blackell@xenco.com

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

Project Name:	Fluoride #1	Turn Around	Pres. Code
Project Number:	11226941-1	<input type="checkbox"/> Routine <input type="checkbox"/> Rush	
Project Location:		Due Date:	3 Dec 21
Sampler's Name:	NA	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Weir: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Thermometer ID:	TW1007
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Correction Factor:	-0.2
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.0



890-1018 Chain of Custody

242

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Preservative Codes	Sample Comments
S3-13-2'	S	7-26-21	0900				Chloride 300.0	None: NO	DI Water: H ₂ O
S3-13-4'	S	7-26-21	0905				TPH 1075 (MDE, ARE, DRC)	Cool: Cool	MeOH: Me
S3-13-6'	S	7-26-21	0910				376.0013	HCL: HC	HNO ₃ : HN
S3-13-10'	S	7-26-21	0915					H ₂ SO ₄ : H ₂	NaOH: Na
S3-13-15'	S	7-26-21	0920					H ₃ PO ₄ : HP	
S3-13-18'	S	7-26-21	0925					NaHSO ₄ : NABIS	
S3-13-20'	S	7-26-21	0930					Na ₂ S ₂ O ₃ : NaSO ₃	
S3-14-2'	S	7-26-21	1125					Zn Acetate+NaOH: Zn	
S3-14-4'	S	7-26-21	1130					NaOH+Ascorbic Acid: SAPC	
S3-14-10'	S	7-26-21	1135						

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
		7-29-21 1138 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: _____

www.xenco.com Page 2 of 5

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

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

Project Name:	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number:	<input type="checkbox"/> Routine <input type="checkbox"/> Rush																
Project Location:	Due Date: 3/24/24	TAT starts the day received by the lab, if received by 4:30pm															
Sample's Name:																	
PO #:	Temp Blank:	Yes	No	Wet Ice:	Yes	No											
SAMPLE RECEIPT	Samples Received Intact:	Yes	No	Thermometer ID:													
	Cooler Custody Seals:	Yes	No	Correction factor:													
	Sample Custody Seals:	Yes	No	Temperature Reading:													
	Total Containers:	Corrected Temperature:															

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont													Sample Comments
512-1P-15'	S	7-26-21	1140		A	1													
512-3P-2'		7-26-21	1310																
518-3P-4'		7-26-21	1315																
513-3P-10'		7-26-21	1320																
513-3P-15'		7-26-21	1325																
513-2P-2'		7-26-21	1435																
513-2P-4'		7-26-21	1630																
513-2P-10'		7-26-21	1635																
513-2P-15'		7-26-21	1640																
518-2P-2'	V	7-27-21	1900																

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 Ti U Hg: 163.1 / 245.1 / 74.70 / 74.71

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: 163.1 / 245.1 / 74.70 / 74.71

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
		7-29-21 1138 ²			



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

www.xenco.com Page 3 of 3

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ # of Comp	Cont	Sample Comments
5B-20-4'	5	7-27-21	0705		1		
5B-20-10'		7-27-21	0710		1		
5B-20-15'		7-27-21	0715		1		
5B-21-2'		7-27-21	0835		1		
5B-21-4'		7-27-21	1240		1		
5B-41-0'		7-27-21	1245		1		
5B-41-15'		7-27-21	1350		1		
5B-42-0'		7-27-21	1415		1		
5B-42-4'		7-27-21	1425		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	SiO₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s)	and Metal(s)	to be analyzed	TCPLP / 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 sample and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Revised Date: 08/25/2020 Rev 2020.2



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 4 of 5

Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

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

Project Name:	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	<input type="checkbox"/> Routine <input type="checkbox"/> Rush	Due Date: 3 Day														None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP				
Project Location:	TAT starts the day received by the lab, if received by 4:30pm																			
Sample's Name:																				
PO #:																				
SAMPLE RECEIPT			Temp Blank:	Yes	No	Wet Ice:	Yes	No												
Samples Received Intact:			Yes	No	Thermometer (F):															
Cooler Custody Seals:			Yes	No	Correction Factor:															
Sample Custody Seals:			Yes	No	Temperature Reading:															
Total Containers:			Corrected Temperature:																	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont													Sample Comments
5B-4F-15'	S	7-29-21	1430																
5B-2B-2'		7-29-21	1500																
5B-2B-4'		7-29-21	1500																
5B-2B-10'		7-29-21	1510																
5B-4F-2'		7-29-21	1650																
5B-4F-4'		7-29-21	1655																
5B-4F-10'		7-29-21	1650																
5B-4F-15'		7-29-21	1700																
5B-11C-20'		7-29-21	1710																
5B-21-2'	V	7-29-21	1030																WLD 5B-4F-25'

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	B	Cd	Ca	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
		7-29-21 1138			



eurofins

Environment Testing
Xenco

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

Chain of Custody

Work Order No:

www.xenco.com Page 2 of 2

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

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		Pres. Code	ANALYSIS REQUEST												Preservative Codes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Project Number:	<input type="checkbox"/> Routine <input type="checkbox"/> Rush	Due Date:	TAT starts the day received by the lab, if received by 4:30pm														None; NO	DI Water; H ₂ O																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Project Location:		Due Date: 3 July																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Sample's Name:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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	Grab/Comp	# of Cont																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
SB-21-4'	S	7-27-21	1635			CA	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 / 17471											

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

Reinquished by: (Signature)

Received by: (Signature)

Date/Time

[illegible]

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad, NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



eurofins

Environment Testing
America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No:				
Client Contact				Phone:	Simmons, Debbie		890-322 1				
Shipping/Receiving				E-Mail	debbie.simmons@eurofinset.com	State of Origin	Page 1 of 4				
Company				Accreditations Required (See note)							
Eurofins Xenco				NELAP - Louisiana, NELAP - Texas							
Address				Job #:							
1211 W Florida Ave.				890-1018-1							
City				Analysis Requested							
Midland				TAT Requested (days)							
State, Zip											
TX 79701											
Phone											
432-704-5440(Tel)				PO #:							
Email:				WQ #:							
Project Name:				Project #:							
Flamenco #1				88000221							
Site:				SSOW#:							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH - NM	8021B/5035FP_Calc BTEX (bulk jar/FP prep)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note
SB-41-2 (890-1018-1)	7/27/21	12 35	Mountain	Solid	X	X	X	X		1	
SB-41-4 (890-1018-2)	7/27/21	12 40	Mountain	Solid	X	X	X	X		1	
SB-41-10 (890-1018-3)	7/27/21	12 45	Mountain	Solid	X	X	X	X		1	
SB-41-15 (890-1018-4)	7/27/21	12 50	Mountain	Solid	X	X	X	X		1	
SB-42-2 (890-1018-5)	7/27/21	14 15	Mountain	Solid	X	X	X	X		1	
SB-42-4 (890-1018-6)	7/27/21	14 20	Mountain	Solid	X	X	X	X		1	
SB-42-10 (890-1018-7)	7/27/21	14 25	Mountain	Solid	X	X	X	X		1	
SB-42-15 (890-1018-8)	7/27/21	14 30	Mountain	Solid	X	X	X	X		1	
SB-23-2 (890-1018-9)	7/27/21	15 00	Mountain	Solid	X	X	X	X		1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification
Unconfirmed

Deliverable Requested I, II, III, IV Other (specify) Primary Deliverable Rank 2

Empty Kit Relinquished by _____ Date _____

Relinquished by _____ Date/Time _____ Company _____

Relinquished by _____ Date/Time _____ Company _____

Relinquished by _____ Date/Time _____ Company _____

Custody Seals Intact _____ Custody Seal No _____

Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/Requirements

Method of Shipment: _____ Date/Time _____ Company _____

America

Chain of Custody Record

America

Released to Imaging: 5/2/2022 3:37:29 PM

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing

Released to Imaging: 5/2/2022 3:37:29 PM

Environment Testing
America

Chain of Custody Record

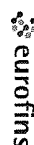
eurofins

Released to Imaging: 5/2/2022 3:37:29 PM

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1018-1

SDG Number: 11220747

Login Number: 1018**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1018-1

SDG Number: 11220747

Login Number: 1018**List Number: 2****Creator: Copeland, Tatiana****List Source: Eurofins Xenco, Midland****List Creation: 07/29/21 10:37 AM**

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

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1018-1

SDG Number: 11220747

Login Number: 1018**List Number: 3****Creator: Lowe, Katie****List Source: Eurofins Xenco, Midland****List Creation: 07/30/21 11:28 AM**

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1065-1
Laboratory Sample Delivery Group: 11220747
Client Project/Site: Flamenco #1

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

Attn: Becky Haskell

A handwritten signature in black ink, appearing to read "Debbie Simmons".

Authorized for release by:
8/11/2021 3:17:04 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: GHD Services Inc.
Project/Site: Flamenco #1

Laboratory Job ID: 890-1065-1
SDG: 11220747

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	16
Lab Chronicle	19
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Checklists	27

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Eurofins Xenco, Carlsbad

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Job ID: 890-1065-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1065-1****Receipt**

The samples were received on 8/6/2021 11:44 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 5.8°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: MW-10-105 (890-1065-4), MW-11-80 (890-1065-7), (890-1064-A-8-B MS) and (890-1064-A-8-C 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

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

HPLC/IC

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

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Client Sample ID: MW-10-4

Lab Sample ID: 890-1065-1

Date Collected: 08/03/21 10:25

Matrix: Solid

Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/09/21 10:01	08/09/21 16:57	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/09/21 10:01	08/09/21 16:57	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/09/21 10:01	08/09/21 16:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/09/21 10:01	08/09/21 16:57	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/09/21 10:01	08/09/21 16:57	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/09/21 10:01	08/09/21 16:57	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/09/21 10:01	08/09/21 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/09/21 10:01	08/09/21 16:57	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/09/21 10:01	08/09/21 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 11:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 11:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 11:35	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/10/21 08:52	08/10/21 11:35	1
o-Terphenyl	104		70 - 130	08/10/21 08:52	08/10/21 11:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.43	J	4.97	0.853	mg/Kg			08/10/21 17:48	1

Client Sample ID: MW-10-40

Lab Sample ID: 890-1065-2

Date Collected: 08/03/21 11:10

Matrix: Solid

Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/09/21 10:01	08/09/21 17:23	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/09/21 10:01	08/09/21 17:23	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/09/21 10:01	08/09/21 17:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/09/21 10:01	08/09/21 17:23	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/09/21 10:01	08/09/21 17:23	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/09/21 10:01	08/09/21 17:23	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/09/21 10:01	08/09/21 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/09/21 10:01	08/09/21 17:23	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/09/21 10:01	08/09/21 17:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 08:52	08/10/21 15:11	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Client Sample ID: MW-10-40

Lab Sample ID: 890-1065-2

Date Collected: 08/03/21 11:10

Matrix: Solid

Date Received: 08/06/21 11:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 08:52	08/10/21 15:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 08:52	08/10/21 15:11	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 08:52	08/10/21 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/10/21 08:52	08/10/21 15:11	1
o-Terphenyl	97		70 - 130				08/10/21 08:52	08/10/21 15:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.8		4.98	0.855	mg/Kg			08/10/21 17:53	1

Client Sample ID: MW-10-80

Lab Sample ID: 890-1065-3

Date Collected: 08/04/21 15:10

Matrix: Solid

Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				08/09/21 10:01	08/09/21 17:49	1
1,4-Difluorobenzene (Surr)	107		70 - 130				08/09/21 10:01	08/09/21 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.3	J	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 18:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 18:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 18:20	1
Total TPH	24.3	J	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				08/09/21 09:15	08/09/21 18:20	1
o-Terphenyl	117		70 - 130				08/09/21 09:15	08/09/21 18:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.14	J	5.04	0.865	mg/Kg			08/10/21 18:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Client Sample ID: MW-10-105

Lab Sample ID: 890-1065-4

Date Collected: 08/04/21 16:30

Matrix: Solid

Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/09/21 10:01	08/09/21 18:14	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/09/21 10:01	08/09/21 18:14	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/09/21 10:01	08/09/21 18:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/09/21 10:01	08/09/21 18:14	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/09/21 10:01	08/09/21 18:14	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/09/21 10:01	08/09/21 18:14	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/09/21 10:01	08/09/21 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	08/09/21 10:01	08/09/21 18:14	1
1,4-Difluorobenzene (Surr)	78		70 - 130	08/09/21 10:01	08/09/21 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.8	J	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 18:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 18:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 18:41	1
Total TPH	22.8	J	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	08/09/21 09:15	08/09/21 18:41	1
o-Terphenyl	116		70 - 130	08/09/21 09:15	08/09/21 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.25	J	5.01	0.860	mg/Kg			08/10/21 18:15	1

Client Sample ID: MW-11-4

Lab Sample ID: 890-1065-5

Date Collected: 08/05/21 09:15

Matrix: Solid

Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/09/21 10:01	08/09/21 18:40	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/09/21 10:01	08/09/21 18:40	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/09/21 10:01	08/09/21 18:40	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/09/21 10:01	08/09/21 18:40	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/09/21 10:01	08/09/21 18:40	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/09/21 10:01	08/09/21 18:40	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/09/21 10:01	08/09/21 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	08/09/21 10:01	08/09/21 18:40	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/09/21 10:01	08/09/21 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.6	J	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Client Sample ID: MW-11-4

Lab Sample ID: 890-1065-5

Date Collected: 08/05/21 09:15

Matrix: Solid

Date Received: 08/06/21 11:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:01	1
Total TPH	16.6	J	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	08/09/21 09:15	08/09/21 19:01	1
o-Terphenyl	129		70 - 130	08/09/21 09:15	08/09/21 19:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	0.855	mg/Kg			08/10/21 18:21	1

Client Sample ID: MW-11-30

Lab Sample ID: 890-1065-6

Date Collected: 08/05/21 09:50

Matrix: Solid

Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/09/21 10:01	08/09/21 19:06	1
Toluene	0.000519	J	0.00202	0.000461	mg/Kg		08/09/21 10:01	08/09/21 19:06	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/09/21 10:01	08/09/21 19:06	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/09/21 10:01	08/09/21 19:06	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/09/21 10:01	08/09/21 19:06	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/09/21 10:01	08/09/21 19:06	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/09/21 10:01	08/09/21 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/09/21 10:01	08/09/21 19:06	1
1,4-Difluorobenzene (Surr)	112		70 - 130	08/09/21 10:01	08/09/21 19:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:22	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	08/09/21 09:15	08/09/21 19:22	1
o-Terphenyl	117		70 - 130	08/09/21 09:15	08/09/21 19:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		4.95	0.850	mg/Kg			08/10/21 18:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Client Sample ID: MW-11-80

Lab Sample ID: 890-1065-7

Date Collected: 08/05/21 13:40

Matrix: Solid

Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		08/09/21 10:01	08/09/21 20:48	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		08/09/21 10:01	08/09/21 20:48	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/09/21 10:01	08/09/21 20:48	1
m-Xylene & p-Xylene	0.00337	J	0.00401	0.00101	mg/Kg		08/09/21 10:01	08/09/21 20:48	1
o-Xylene	0.00148	J	0.00200	0.000345	mg/Kg		08/09/21 10:01	08/09/21 20:48	1
Xylenes, Total	0.00485		0.00401	0.00101	mg/Kg		08/09/21 10:01	08/09/21 20:48	1
Total BTEX	0.00485		0.00401	0.00101	mg/Kg		08/09/21 10:01	08/09/21 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	08/09/21 10:01	08/09/21 20:48	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/09/21 10:01	08/09/21 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.4	J	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 19:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 19:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 19:42	1
Total TPH	21.4	J	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	08/09/21 09:15	08/09/21 19:42	1
o-Terphenyl	103		70 - 130	08/09/21 09:15	08/09/21 19:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.29	J	4.97	0.853	mg/Kg			08/10/21 18:32	1

Client Sample ID: MW-11-100

Lab Sample ID: 890-1065-8

Date Collected: 08/05/21 15:15

Matrix: Solid

Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/09/21 10:01	08/09/21 21:14	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/09/21 10:01	08/09/21 21:14	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/09/21 10:01	08/09/21 21:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/09/21 10:01	08/09/21 21:14	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/09/21 10:01	08/09/21 21:14	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/09/21 10:01	08/09/21 21:14	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/09/21 10:01	08/09/21 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/09/21 10:01	08/09/21 21:14	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/09/21 10:01	08/09/21 21:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.7	J	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Client Sample ID: MW-11-100

Lab Sample ID: 890-1065-8

Date Collected: 08/05/21 15:15

Matrix: Solid

Date Received: 08/06/21 11:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:03	1
Total TPH	30.7	J	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/09/21 09:15	08/09/21 20:03	1
o-Terphenyl	105		70 - 130				08/09/21 09:15	08/09/21 20:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.71		4.99	0.857	mg/Kg			08/10/21 18:37	1

Client Sample ID: MW-11-105

Lab Sample ID: 890-1065-9

Date Collected: 08/05/21 15:50

Matrix: Solid

Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
o-Xylene	0.000381	J	0.00199	0.000342	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				08/09/21 10:01	08/09/21 21:40	1
1,4-Difluorobenzene (Surr)	74		70 - 130				08/09/21 10:01	08/09/21 21:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:23	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/09/21 09:15	08/09/21 20:23	1
o-Terphenyl	109		70 - 130				08/09/21 09:15	08/09/21 20:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.16		5.00	0.858	mg/Kg			08/10/21 18:43	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

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)
890-1065-1	MW-10-4	124	111
890-1065-2	MW-10-40	112	109
890-1065-3	MW-10-80	126	107
890-1065-4	MW-10-105	149 S1+	78
890-1065-5	MW-11-4	125	111
890-1065-6	MW-11-30	120	112
890-1065-7	MW-11-80	142 S1+	87
890-1065-8	MW-11-100	100	90
890-1065-9	MW-11-105	129	74
LCS 880-6242/1-A	Lab Control Sample	119	106
LCSD 880-6242/2-A	Lab Control Sample Dup	111	111
MB 880-6242/5-A	Method Blank	73	94
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)
890-1065-1	MW-10-4	92	104
890-1065-1 MS	MW-10-4	90	87
890-1065-1 MSD	MW-10-4	85	85
890-1065-2	MW-10-40	88	97
890-1065-3	MW-10-80	112	117
890-1065-4	MW-10-105	105	116
890-1065-5	MW-11-4	115	129
890-1065-6	MW-11-30	103	117
890-1065-7	MW-11-80	95	103
890-1065-8	MW-11-100	96	105
890-1065-9	MW-11-105	98	109
LCS 880-6236/2-A	Lab Control Sample	106	103
LCS 880-6283/2-A	Lab Control Sample	85	92
LCSD 880-6236/3-A	Lab Control Sample Dup	95	93
LCSD 880-6283/3-A	Lab Control Sample Dup	88	95
MB 880-6236/1-A	Method Blank	103	112
MB 880-6283/1-A	Method Blank	92	106
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6242/5-A

Matrix: Solid

Analysis Batch: 6247

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/09/21 10:01	08/09/21 14:46	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/09/21 10:01	08/09/21 14:46	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/09/21 10:01	08/09/21 14:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/09/21 10:01	08/09/21 14:46	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/09/21 10:01	08/09/21 14:46	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/09/21 10:01	08/09/21 14:46	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/09/21 10:01	08/09/21 14:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	08/09/21 10:01	08/09/21 14:46	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/09/21 10:01	08/09/21 14:46	1

Lab Sample ID: LCS 880-6242/1-A

Matrix: Solid

Analysis Batch: 6247

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1052		mg/Kg		105	70 - 130
Toluene	0.100	0.1093		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2054		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1028		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-6242/2-A

Matrix: Solid

Analysis Batch: 6247

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6242

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1065		mg/Kg		106	70 - 130	1	35
Toluene	0.100	0.1084		mg/Kg		108	70 - 130	1	35
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2042		mg/Kg		102	70 - 130	1	35
o-Xylene	0.100	0.1020		mg/Kg		102	70 - 130	1	35

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

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

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

Lab Sample ID: MB 880-6236/1-A

Matrix: Solid

Analysis Batch: 6234

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6236

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 11:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 11:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 11:44	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	08/09/21 09:15	08/09/21 11:44	1
o-Terphenyl	112		70 - 130	08/09/21 09:15	08/09/21 11:44	1

Lab Sample ID: LCS 880-6236/2-A

Matrix: Solid

Analysis Batch: 6234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6236

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1014		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1047		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-6236/3-A

Matrix: Solid

Analysis Batch: 6234

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6236

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	929.7		mg/Kg		93	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	943.9		mg/Kg		94	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: MB 880-6283/1-A

Matrix: Solid

Analysis Batch: 6274

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6283

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 10:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 10:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 10:26	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 10:26	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/10/21 08:52	08/10/21 10:26	1
o-Terphenyl	106		70 - 130	08/10/21 08:52	08/10/21 10:26	1

Lab Sample ID: LCS 880-6283/2-A

Matrix: Solid

Analysis Batch: 6274

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6283

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	867.7		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1043		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-6283/3-A

Matrix: Solid

Analysis Batch: 6274

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6283

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	875.1		mg/Kg		88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1085		mg/Kg		109	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-1065-1 MS

Matrix: Solid

Analysis Batch: 6274

Client Sample ID: MW-10-4

Prep Type: Total/NA

Prep Batch: 6283

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	995	1083		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	1364	F1	mg/Kg		137	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-1065-1 MSD

Matrix: Solid

Analysis Batch: 6274

Client Sample ID: MW-10-4

Prep Type: Total/NA

Prep Batch: 6283

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1063		mg/Kg		106	70 - 130	2	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

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

Lab Sample ID: 890-1065-1 MSD

Matrix: Solid

Analysis Batch: 6274

Client Sample ID: MW-10-4

Prep Type: Total/NA

Prep Batch: 6283

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	1346	F1	mg/Kg		135	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	85		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6290/1-A

Matrix: Solid

Analysis Batch: 6291

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/10/21 15:58	1

Lab Sample ID: LCS 880-6290/2-A

Matrix: Solid

Analysis Batch: 6291

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits				
Chloride	250	263.1		mg/Kg		105	90 - 110				

Lab Sample ID: LCSD 880-6290/3-A

Matrix: Solid

Analysis Batch: 6291

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	265.2		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

GC VOA

Prep Batch: 6242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-1	MW-10-4	Total/NA	Solid	5035	
890-1065-2	MW-10-40	Total/NA	Solid	5035	
890-1065-3	MW-10-80	Total/NA	Solid	5035	
890-1065-4	MW-10-105	Total/NA	Solid	5035	
890-1065-5	MW-11-4	Total/NA	Solid	5035	
890-1065-6	MW-11-30	Total/NA	Solid	5035	
890-1065-7	MW-11-80	Total/NA	Solid	5035	
890-1065-8	MW-11-100	Total/NA	Solid	5035	
890-1065-9	MW-11-105	Total/NA	Solid	5035	
MB 880-6242/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6242/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6242/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 6247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-1	MW-10-4	Total/NA	Solid	8021B	6242
890-1065-2	MW-10-40	Total/NA	Solid	8021B	6242
890-1065-3	MW-10-80	Total/NA	Solid	8021B	6242
890-1065-4	MW-10-105	Total/NA	Solid	8021B	6242
890-1065-5	MW-11-4	Total/NA	Solid	8021B	6242
890-1065-6	MW-11-30	Total/NA	Solid	8021B	6242
890-1065-7	MW-11-80	Total/NA	Solid	8021B	6242
890-1065-8	MW-11-100	Total/NA	Solid	8021B	6242
890-1065-9	MW-11-105	Total/NA	Solid	8021B	6242
MB 880-6242/5-A	Method Blank	Total/NA	Solid	8021B	6242
LCS 880-6242/1-A	Lab Control Sample	Total/NA	Solid	8021B	6242
LCSD 880-6242/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6242

GC Semi VOA

Analysis Batch: 6234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-3	MW-10-80	Total/NA	Solid	8015B NM	6236
890-1065-4	MW-10-105	Total/NA	Solid	8015B NM	6236
890-1065-5	MW-11-4	Total/NA	Solid	8015B NM	6236
890-1065-6	MW-11-30	Total/NA	Solid	8015B NM	6236
890-1065-7	MW-11-80	Total/NA	Solid	8015B NM	6236
890-1065-8	MW-11-100	Total/NA	Solid	8015B NM	6236
890-1065-9	MW-11-105	Total/NA	Solid	8015B NM	6236
MB 880-6236/1-A	Method Blank	Total/NA	Solid	8015B NM	6236
LCS 880-6236/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6236
LCSD 880-6236/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6236

Prep Batch: 6236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-3	MW-10-80	Total/NA	Solid	8015NM Prep	
890-1065-4	MW-10-105	Total/NA	Solid	8015NM Prep	
890-1065-5	MW-11-4	Total/NA	Solid	8015NM Prep	
890-1065-6	MW-11-30	Total/NA	Solid	8015NM Prep	
890-1065-7	MW-11-80	Total/NA	Solid	8015NM Prep	
890-1065-8	MW-11-100	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

GC Semi VOA (Continued)

Prep Batch: 6236 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-9	MW-11-105	Total/NA	Solid	8015NM Prep	
MB 880-6236/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6236/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6236/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-1	MW-10-4	Total/NA	Solid	8015B NM	6283
890-1065-2	MW-10-40	Total/NA	Solid	8015B NM	6283
MB 880-6283/1-A	Method Blank	Total/NA	Solid	8015B NM	6283
LCS 880-6283/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6283
LCSD 880-6283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6283
890-1065-1 MS	MW-10-4	Total/NA	Solid	8015B NM	6283
890-1065-1 MSD	MW-10-4	Total/NA	Solid	8015B NM	6283

Prep Batch: 6283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-1	MW-10-4	Total/NA	Solid	8015NM Prep	
890-1065-2	MW-10-40	Total/NA	Solid	8015NM Prep	
MB 880-6283/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6283/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1065-1 MS	MW-10-4	Total/NA	Solid	8015NM Prep	
890-1065-1 MSD	MW-10-4	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 6290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-1	MW-10-4	Soluble	Solid	DI Leach	
890-1065-2	MW-10-40	Soluble	Solid	DI Leach	
890-1065-3	MW-10-80	Soluble	Solid	DI Leach	
890-1065-4	MW-10-105	Soluble	Solid	DI Leach	
890-1065-5	MW-11-4	Soluble	Solid	DI Leach	
890-1065-6	MW-11-30	Soluble	Solid	DI Leach	
890-1065-7	MW-11-80	Soluble	Solid	DI Leach	
890-1065-8	MW-11-100	Soluble	Solid	DI Leach	
890-1065-9	MW-11-105	Soluble	Solid	DI Leach	
MB 880-6290/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6290/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6290/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 6291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-1	MW-10-4	Soluble	Solid	300.0	6290
890-1065-2	MW-10-40	Soluble	Solid	300.0	6290
890-1065-3	MW-10-80	Soluble	Solid	300.0	6290
890-1065-4	MW-10-105	Soluble	Solid	300.0	6290
890-1065-5	MW-11-4	Soluble	Solid	300.0	6290
890-1065-6	MW-11-30	Soluble	Solid	300.0	6290
890-1065-7	MW-11-80	Soluble	Solid	300.0	6290

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 6291 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-8	MW-11-100	Soluble	Solid	300.0	6290
890-1065-9	MW-11-105	Soluble	Solid	300.0	6290
MB 880-6290/1-A	Method Blank	Soluble	Solid	300.0	6290
LCS 880-6290/2-A	Lab Control Sample	Soluble	Solid	300.0	6290
LCSD 880-6290/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6290

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Client Sample ID: MW-10-4

Lab Sample ID: 890-1065-1

Date Collected: 08/03/21 10:25

Matrix: Solid

Date Received: 08/06/21 11:44

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	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 16:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6283	08/10/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6274	08/10/21 11:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 17:48	CH	XEN MID

Client Sample ID: MW-10-40

Lab Sample ID: 890-1065-2

Date Collected: 08/03/21 11:10

Matrix: Solid

Date Received: 08/06/21 11:44

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	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 17:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6283	08/10/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6274	08/10/21 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 17:53	CH	XEN MID

Client Sample ID: MW-10-80

Lab Sample ID: 890-1065-3

Date Collected: 08/04/21 15:10

Matrix: Solid

Date Received: 08/06/21 11:44

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	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 17:49	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:10	CH	XEN MID

Client Sample ID: MW-10-105

Lab Sample ID: 890-1065-4

Date Collected: 08/04/21 16:30

Matrix: Solid

Date Received: 08/06/21 11:44

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	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 18:14	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:15	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Client Sample ID: MW-11-4

Lab Sample ID: 890-1065-5

Date Collected: 08/05/21 09:15

Matrix: Solid

Date Received: 08/06/21 11:44

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	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 18:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 19:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:21	CH	XEN MID

Client Sample ID: MW-11-30

Lab Sample ID: 890-1065-6

Date Collected: 08/05/21 09:50

Matrix: Solid

Date Received: 08/06/21 11:44

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	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 19:06	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 19:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:26	CH	XEN MID

Client Sample ID: MW-11-80

Lab Sample ID: 890-1065-7

Date Collected: 08/05/21 13:40

Matrix: Solid

Date Received: 08/06/21 11:44

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	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 20:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 19:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:32	CH	XEN MID

Client Sample ID: MW-11-100

Lab Sample ID: 890-1065-8

Date Collected: 08/05/21 15:15

Matrix: Solid

Date Received: 08/06/21 11:44

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	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 21:14	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 20:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:37	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Client Sample ID: MW-11-105
Date Collected: 08/05/21 15:50
Date Received: 08/06/21 11:44

Lab Sample ID: 890-1065-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 21:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 20:23	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:43	CH	XEN MID

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1065-1	MW-10-4	Solid	08/03/21 10:25	08/06/21 11:44
890-1065-2	MW-10-40	Solid	08/03/21 11:10	08/06/21 11:44
890-1065-3	MW-10-80	Solid	08/04/21 15:10	08/06/21 11:44
890-1065-4	MW-10-105	Solid	08/04/21 16:30	08/06/21 11:44
890-1065-5	MW-11-4	Solid	08/05/21 09:15	08/06/21 11:44
890-1065-6	MW-11-30	Solid	08/05/21 09:50	08/06/21 11:44
890-1065-7	MW-11-80	Solid	08/05/21 13:40	08/06/21 11:44
890-1065-8	MW-11-100	Solid	08/05/21 15:15	08/06/21 11:44
890-1065-9	MW-11-105	Solid	08/05/21 15:50	08/06/21 11:44



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Becky Haskell	Bill to: (if different)	Sarah Kennedy
Company Name:	ELTD	Company Name:	EDG
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	432 250-9917	Email:	Becky.Haskell@edg.com

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

Project Name:	Fluorente #1	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
---------------	--------------	-------------	------------	------------------	--------------------

Project Number:	17280444	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Due Date:	3 Day	None: NO	DI Water: H ₂ O
-----------------	----------	---	-----------	-------	----------	----------------------------

Project Location:		TAT starts the day received by the lab, if received by 4:30pm			Cool: Cool	MeOH: Me
-------------------	--	---	--	--	------------	----------

Sampler's Name:	12				HCL: HC	HNO ₃ : HN
-----------------	----	--	--	--	---------	-----------------------

PO #:					H ₂ SO ₄ : H ₂	NaOH: Na
-------	--	--	--	--	---	----------

SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Well Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	H ₃ PO ₄ : HP	
----------------	-------------	---	-----------	---	-------------------------------------	--

Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	IN-1007		NaHSO ₄ : NABIS	
--------------------------	---	-----------------	---------	--	----------------------------	--

Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:	-0.7		Na ₂ S ₂ O ₃ : NaSO ₃	
-----------------------	---	--------------------	------	--	---	--

Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	0.5/6.30K		Zn Acetate+NaOH: Zn	
-----------------------	---	----------------------	-----------	--	---------------------	--

Total Containers:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Corrected Temperature:	6.3/6.0/5.8		NaOH+Ascorbic Acid: SAPC	
-------------------	---	------------------------	-------------	--	--------------------------	--

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chlorides	BTX	TPH (MRO, GRO, DRO)	Sample Comments
MW-10-4'	S	8-3-21	1025		9	1				
MW-10-40'		8-3-21	1110							
MW-10-90'		8-4-21	1510							
MW-10-105'		8-4-21	1630							
MW-11-4'		8-5-21	0915							
MW-11-30'		8-5-21	0950							
MW-11-80'		8-5-21	1340							
MW-11-100'		8-5-21	1515							
MW-11-105'		8-5-21	1550							

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-0010	8RCRA	Ch As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Ti U	Hg: 1631/245.1/7470/7471
--	----------------	-------	---	--------------------------

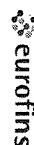
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume 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
		8/6/21 1:00			

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)						Sampler	Lab PM	Carrier Tracking No(s)	COC No								
Client Contact:						Phone:	Simmons, Debbie		890-339 1								
Shipping/Receiving						E-Mail:	debbie.simmons@eurofinet.com	State of Origin:	Page								
Company:						Accreditations Required (See note)			Page 1 of 1								
Eurofins Xenco						NELAP - Louisiana, NELAP - Texas			Job #								
Address						Due Date Requested	Preservation Codes:										
1211 W Florida Ave,						8/11/2021	A - HCL M Hexane B - NaOH N None C - Zn Acetate O AsNaO2 D - Nitric Acid P Na2OAS E - NaHSO4 Q Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascobic Acid T TSP Dodecylhydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4.5 L EDA Z other (specify) Other										
City Midland						TAT Requested (days)											
State, Zip: TX, 79701						PO #											
Email 432-704-5440(Tel)						WO #											
Project Name Flamenco #1						Project # 88000221											
Site: SSOW#:																	
Sample Identification - Client ID (Lab ID)						Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	MATRIX (W=water, S=solid, O=wash/dil, BT=tissue, A=all)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH - NM	8021B/5035FP_Calc BTEX (bulk jar/FP prep)	300_ORGFN_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note	
MMW-10-4 (890-1065-1)						8/3/21	10 25 Mountain	Solid		X	X	X				1	
MMW-10-40 (890-1065-2)						8/3/21	11 10 Mountain	Solid		X	X	X				1	
MMW-10-80 (890-1065-3)						8/4/21	15 10 Mountain	Solid		X	X	X				1	
MMW-10-105 (890-1065-4)						8/4/21	16 30 Mountain	Solid		X	X	X				1	
MMW-11-4 (890-1065-5)						8/5/21	09 15 Mountain	Solid		X	X	X				1	
MMW-11-30 (890-1065-6)						8/5/21	09 50 Mountain	Solid		X	X	X				1	
MMW-11-80 (890-1065-7)						8/5/21	13 40 Mountain	Solid		X	X	X				1	
MMW-11-100 (890-1065-8)						8/5/21	15 15 Mountain	Solid		X	X	X				1	
MMW-11-105 (890-1065-9)						8/5/21	15 50 Mountain	Solid		X	X	X				1	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.																	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Unconfirmed Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank 2						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months											
Empty Kit Relinquished by:						Date	Time	Method of Shipment									
Relinquished by: CUECOFF 8.16.21						Date/Time	Company	Received by: [Signature] Date/Time 8-21-21 9:00 AM Company									
Relinquished by:						Date/Time	Company	Received by: [Signature] Date/Time Company									
Relinquished by:						Date/Time	Company	Received by: [Signature] Date/Time Company									
Custody Seals Intact: A Yes A No Custody Seal No						Cooler Temperature(s) °C and Other Remarks:											

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1065-1

SDG Number: 11220747

Login Number: 1065

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1065-1

SDG Number: 11220747

Login Number: 1065

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 08/09/21 09:01 AM

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1074-1
Laboratory Sample Delivery Group: 11220747
Client Project/Site: Flamenco #1

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

Attn: Becky Haskell

A handwritten signature in black ink, appearing to read "Debbie Simmons".

Authorized for release by:
8/12/2021 10:05:48 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: GHD Services Inc.
Project/Site: Flamenco #1

Laboratory Job ID: 890-1074-1
SDG: 11220747

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Client Sample Results	6
Surrogate Summary	39
QC Sample Results	43
QC Association Summary	56
Lab Chronicle	66
Certification Summary	79
Method Summary	80
Sample Summary	81
Chain of Custody	82
Receipt Checklists	87

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Qualifiers

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Eurofins Xenco, Carlsbad

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Glossary (Continued)

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

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

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Job ID: 890-1074-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1074-1****Receipt**

The samples were received on 8/9/2021 12:05 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 6.6°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SB-37-2 (890-1074-38), SB-37-30 (890-1074-40), SB-35-4 (890-1074-41) and SB-34-2 (890-1074-45). 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: SB-44-25 (890-1074-4), SB-44-30 (890-1074-5), SB-16-10 (890-1074-14), SB-43-4 (890-1074-22), SB-43-40 (890-1074-25), (890-1074-A-12-B MS) and (890-1074-A-12-C 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 method blank for preparation batch 880-6329 and analytical batch 880-6274 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-44-2

Lab Sample ID: 890-1074-1

Date Collected: 08/06/21 09:00

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/10/21 08:51	08/10/21 16:26	1
Toluene	0.000781	J	0.00202	0.000460	mg/Kg		08/10/21 08:51	08/10/21 16:26	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/10/21 08:51	08/10/21 16:26	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 08:51	08/10/21 16:26	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/10/21 08:51	08/10/21 16:26	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 08:51	08/10/21 16:26	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 08:51	08/10/21 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/10/21 08:51	08/10/21 16:26	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/10/21 08:51	08/10/21 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 12:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 12:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 12:18	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	08/10/21 09:08	08/10/21 12:18	1
o-Terphenyl	93		70 - 130	08/10/21 09:08	08/10/21 12:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.8		4.97	0.853	mg/Kg			08/12/21 02:07	1

Client Sample ID: SB-44-4

Lab Sample ID: 890-1074-2

Date Collected: 08/06/21 09:05

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00404		0.00201	0.000387	mg/Kg		08/10/21 08:51	08/10/21 18:17	1
Toluene	0.00168	J	0.00201	0.000458	mg/Kg		08/10/21 08:51	08/10/21 18:17	1
Ethylbenzene	0.00452		0.00201	0.000567	mg/Kg		08/10/21 08:51	08/10/21 18:17	1
m-Xylene & p-Xylene	0.0182		0.00402	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:17	1
o-Xylene	0.00515		0.00201	0.000345	mg/Kg		08/10/21 08:51	08/10/21 18:17	1
Xylenes, Total	0.0234		0.00402	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:17	1
Total BTEX	0.0336		0.00402	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/10/21 08:51	08/10/21 18:17	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/10/21 08:51	08/10/21 18:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 13:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-44-4

Lab Sample ID: 890-1074-2

Date Collected: 08/06/21 09:05

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 13:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 13:23	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				08/10/21 09:08	08/10/21 13:23	1
o-Terphenyl	98		70 - 130				08/10/21 09:08	08/10/21 13:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.9		4.96	0.851	mg/Kg			08/12/21 02:13	1

Client Sample ID: SB-44-8

Lab Sample ID: 890-1074-3

Date Collected: 08/06/21 09:15

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
Toluene	0.000852	J	0.00200	0.000456	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
o-Xylene	0.000838	J	0.00200	0.000344	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
Total BTEX	0.00169	J	0.00400	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				08/10/21 08:51	08/10/21 18:37	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/10/21 08:51	08/10/21 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 13:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 13:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 13:45	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 13:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				08/10/21 09:08	08/10/21 13:45	1
o-Terphenyl	93		70 - 130				08/10/21 09:08	08/10/21 13:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4560		25.2	4.33	mg/Kg			08/12/21 02:18	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-44-25

Lab Sample ID: 890-1074-4

Date Collected: 08/06/21 09:40

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00856		0.00199	0.000383	mg/Kg		08/10/21 08:51	08/10/21 18:57	1
Toluene	0.00154	J	0.00199	0.000454	mg/Kg		08/10/21 08:51	08/10/21 18:57	1
Ethylbenzene	0.00669		0.00199	0.000563	mg/Kg		08/10/21 08:51	08/10/21 18:57	1
m-Xylene & p-Xylene	0.00459		0.00398	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:57	1
o-Xylene	0.00530		0.00199	0.000343	mg/Kg		08/10/21 08:51	08/10/21 18:57	1
Xylenes, Total	0.00989		0.00398	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:57	1
Total BTEX	0.0267		0.00398	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	08/10/21 08:51	08/10/21 18:57	1
1,4-Difluorobenzene (Surr)	112		70 - 130	08/10/21 08:51	08/10/21 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:06	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	08/10/21 09:08	08/10/21 14:06	1
o-Terphenyl	86		70 - 130	08/10/21 09:08	08/10/21 14:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.9		4.98	0.855	mg/Kg			08/12/21 02:24	1

Client Sample ID: SB-44-30

Lab Sample ID: 890-1074-5

Date Collected: 08/06/21 09:45

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000860	J	0.00199	0.000383	mg/Kg		08/10/21 08:51	08/10/21 19:18	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 08:51	08/10/21 19:18	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 08:51	08/10/21 19:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 08:51	08/10/21 19:18	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/10/21 08:51	08/10/21 19:18	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 08:51	08/10/21 19:18	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 08:51	08/10/21 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	08/10/21 08:51	08/10/21 19:18	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/10/21 08:51	08/10/21 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 14:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-44-30

Lab Sample ID: 890-1074-5

Date Collected: 08/06/21 09:45

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 14:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 14:27	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				08/10/21 09:08	08/10/21 14:27	1
o-Terphenyl	86		70 - 130				08/10/21 09:08	08/10/21 14:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.6		5.00	0.858	mg/Kg			08/12/21 02:30	1

Client Sample ID: SB-15-2

Lab Sample ID: 890-1074-6

Date Collected: 08/06/21 09:55

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
o-Xylene	0.000515	J	0.00200	0.000343	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				08/10/21 08:51	08/10/21 19:38	1
1,4-Difluorobenzene (Surr)	112		70 - 130				08/10/21 08:51	08/10/21 19:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:49	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/10/21 09:08	08/10/21 14:49	1
o-Terphenyl	91		70 - 130				08/10/21 09:08	08/10/21 14:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	563		5.02	0.862	mg/Kg			08/12/21 02:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-15-4

Lab Sample ID: 890-1074-7

Date Collected: 08/06/21 10:00

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 08:51	08/10/21 19:59	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 08:51	08/10/21 19:59	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/10/21 08:51	08/10/21 19:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 08:51	08/10/21 19:59	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/10/21 08:51	08/10/21 19:59	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 08:51	08/10/21 19:59	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 08:51	08/10/21 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/10/21 08:51	08/10/21 19:59	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/10/21 08:51	08/10/21 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 15:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 15:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 15:11	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	08/10/21 09:08	08/10/21 15:11	1
o-Terphenyl	100		70 - 130	08/10/21 09:08	08/10/21 15:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	970		5.00	0.858	mg/Kg			08/12/21 02:52	1

Client Sample ID: SB-15-6

Lab Sample ID: 890-1074-8

Date Collected: 08/06/21 10:20

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 08:51	08/10/21 20:19	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 08:51	08/10/21 20:19	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 08:51	08/10/21 20:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 08:51	08/10/21 20:19	1
o-Xylene	0.000546	J	0.00200	0.000343	mg/Kg		08/10/21 08:51	08/10/21 20:19	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 08:51	08/10/21 20:19	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 08:51	08/10/21 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	08/10/21 08:51	08/10/21 20:19	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/10/21 08:51	08/10/21 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-15-6

Lab Sample ID: 890-1074-8

Date Collected: 08/06/21 10:20

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:32	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				08/10/21 09:08	08/10/21 15:32	1
o-Terphenyl	90		70 - 130				08/10/21 09:08	08/10/21 15:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6250		49.5	8.50	mg/Kg			08/12/21 03:09	10

Client Sample ID: SB-15-35

Lab Sample ID: 890-1074-9

Date Collected: 08/06/21 11:20

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000595	J	0.00200	0.000386	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				08/10/21 08:51	08/10/21 20:39	1
1,4-Difluorobenzene (Surr)	116		70 - 130				08/10/21 08:51	08/10/21 20:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:55	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				08/10/21 09:08	08/10/21 15:55	1
o-Terphenyl	96		70 - 130				08/10/21 09:08	08/10/21 15:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	626		4.96	0.851	mg/Kg			08/12/21 03:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-15-40

Lab Sample ID: 890-1074-10

Date Collected: 08/06/21 11:30

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000949	J	0.00201	0.000387	mg/Kg		08/10/21 08:51	08/10/21 21:00	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/10/21 08:51	08/10/21 21:00	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/10/21 08:51	08/10/21 21:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 08:51	08/10/21 21:00	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/10/21 08:51	08/10/21 21:00	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 08:51	08/10/21 21:00	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 08:51	08/10/21 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/10/21 08:51	08/10/21 21:00	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/10/21 08:51	08/10/21 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 16:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 16:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 16:16	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	08/10/21 09:08	08/10/21 16:16	1
o-Terphenyl	87		70 - 130	08/10/21 09:08	08/10/21 16:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.3		4.98	0.855	mg/Kg			08/12/21 03:20	1

Client Sample ID: SB-15-45

Lab Sample ID: 890-1074-11

Date Collected: 08/06/21 11:50

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/10/21 08:51	08/10/21 21:20	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/10/21 08:51	08/10/21 21:20	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/10/21 08:51	08/10/21 21:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 08:51	08/10/21 21:20	1
o-Xylene	0.000650	J	0.00202	0.000347	mg/Kg		08/10/21 08:51	08/10/21 21:20	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 08:51	08/10/21 21:20	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 08:51	08/10/21 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	08/10/21 08:51	08/10/21 21:20	1
1,4-Difluorobenzene (Surr)	106		70 - 130	08/10/21 08:51	08/10/21 21:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-15-45

Lab Sample ID: 890-1074-11

Date Collected: 08/06/21 11:50

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:01	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/10/21 09:08	08/10/21 17:01	1
o-Terphenyl	105		70 - 130				08/10/21 09:08	08/10/21 17:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257		4.96	0.851	mg/Kg			08/11/21 10:30	1

Client Sample ID: SB-16-2

Lab Sample ID: 890-1074-12

Date Collected: 08/06/21 12:05

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	0.000383	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
o-Xylene	0.000736	J	0.00199	0.000342	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/10/21 11:38	08/11/21 00:58	1
1,4-Difluorobenzene (Surr)	106		70 - 130				08/10/21 11:38	08/11/21 00:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:23	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/10/21 09:08	08/10/21 17:23	1
o-Terphenyl	95		70 - 130				08/10/21 09:08	08/10/21 17:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.4		4.98	0.855	mg/Kg			08/11/21 10:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-16-4

Lab Sample ID: 890-1074-13

Date Collected: 08/06/21 12:10

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 11:38	08/11/21 01:19	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 11:38	08/11/21 01:19	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 11:38	08/11/21 01:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:19	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/10/21 11:38	08/11/21 01:19	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:19	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/10/21 11:38	08/11/21 01:19	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/10/21 11:38	08/11/21 01:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:44	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	08/10/21 09:08	08/10/21 17:44	1
o-Terphenyl	86		70 - 130	08/10/21 09:08	08/10/21 17:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.4		5.00	0.858	mg/Kg			08/11/21 10:53	1

Client Sample ID: SB-16-10

Lab Sample ID: 890-1074-14

Date Collected: 08/06/21 13:45

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000510	J	0.00200	0.000386	mg/Kg		08/10/21 11:38	08/11/21 01:39	1
Toluene	0.000880	J B	0.00200	0.000457	mg/Kg		08/10/21 11:38	08/11/21 01:39	1
Ethylbenzene	0.000630	J	0.00200	0.000566	mg/Kg		08/10/21 11:38	08/11/21 01:39	1
m-Xylene & p-Xylene	0.00496		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:39	1
o-Xylene	0.00633		0.00200	0.000345	mg/Kg		08/10/21 11:38	08/11/21 01:39	1
Xylenes, Total	0.0113		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:39	1
Total BTEX	0.0133		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130	08/10/21 11:38	08/11/21 01:39	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/10/21 11:38	08/11/21 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-16-10

Lab Sample ID: 890-1074-14

Date Collected: 08/06/21 13:45

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:06	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				08/10/21 09:08	08/10/21 18:06	1
o-Terphenyl	90		70 - 130				08/10/21 09:08	08/10/21 18:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.2		4.97	0.853	mg/Kg			08/11/21 10:58	1

Client Sample ID: SB-16-20

Lab Sample ID: 890-1074-15

Date Collected: 08/06/21 14:00

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
o-Xylene	0.000461	J	0.00201	0.000345	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				08/10/21 11:38	08/11/21 01:59	1
1,4-Difluorobenzene (Surr)	105		70 - 130				08/10/21 11:38	08/11/21 01:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 18:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 18:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 18:28	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/10/21 09:08	08/10/21 18:28	1
o-Terphenyl	96		70 - 130				08/10/21 09:08	08/10/21 18:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.1		4.99	0.857	mg/Kg			08/11/21 11:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-14-2

Lab Sample ID: 890-1074-16

Date Collected: 08/06/21 14:05

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000529	J	0.00202	0.000388	mg/Kg		08/10/21 11:38	08/11/21 02:20	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/10/21 11:38	08/11/21 02:20	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/10/21 11:38	08/11/21 02:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 11:38	08/11/21 02:20	1
o-Xylene	0.000364	J	0.00202	0.000347	mg/Kg		08/10/21 11:38	08/11/21 02:20	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 11:38	08/11/21 02:20	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 11:38	08/11/21 02:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/10/21 11:38	08/11/21 02:20	1
1,4-Difluorobenzene (Surr)	112		70 - 130	08/10/21 11:38	08/11/21 02:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:49	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/10/21 09:08	08/10/21 18:49	1
o-Terphenyl	94		70 - 130	08/10/21 09:08	08/10/21 18:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		4.98	0.855	mg/Kg			08/11/21 11:21	1

Client Sample ID: SB-14-4

Lab Sample ID: 890-1074-17

Date Collected: 08/06/21 14:20

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00971		0.00200	0.000384	mg/Kg		08/10/21 11:38	08/11/21 02:40	1
Toluene	0.00269	B	0.00200	0.000455	mg/Kg		08/10/21 11:38	08/11/21 02:40	1
Ethylbenzene	0.00986		0.00200	0.000564	mg/Kg		08/10/21 11:38	08/11/21 02:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 02:40	1
o-Xylene	0.00750		0.00200	0.000343	mg/Kg		08/10/21 11:38	08/11/21 02:40	1
Xylenes, Total	0.00750		0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 02:40	1
Total BTEX	0.0298		0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	08/10/21 11:38	08/11/21 02:40	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/10/21 11:38	08/11/21 02:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-14-4

Lab Sample ID: 890-1074-17

Date Collected: 08/06/21 14:20

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:10	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/10/21 09:08	08/10/21 19:10	1
o-Terphenyl	99		70 - 130				08/10/21 09:08	08/10/21 19:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1130		4.95	0.850	mg/Kg			08/11/21 12:05	1

Client Sample ID: SB-14-25

Lab Sample ID: 890-1074-18

Date Collected: 08/06/21 14:50

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000424	J	0.00201	0.000387	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
Toluene	0.000983	J B	0.00201	0.000458	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
o-Xylene	0.000451	J	0.00201	0.000345	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
Total BTEX	0.00186	J	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				08/10/21 11:38	08/11/21 03:01	1
1,4-Difluorobenzene (Surr)	112		70 - 130				08/10/21 11:38	08/11/21 03:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 19:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 19:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 19:31	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				08/10/21 09:08	08/10/21 19:31	1
o-Terphenyl	88		70 - 130				08/10/21 09:08	08/10/21 19:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2180		25.2	4.33	mg/Kg			08/11/21 12:22	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-14-30

Lab Sample ID: 890-1074-19

Date Collected: 08/06/21 14:55

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 11:38	08/11/21 03:21	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 11:38	08/11/21 03:21	1
Ethylbenzene	0.000581	J	0.00199	0.000563	mg/Kg		08/10/21 11:38	08/11/21 03:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:21	1
o-Xylene	0.000581	J	0.00199	0.000343	mg/Kg		08/10/21 11:38	08/11/21 03:21	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:21	1
Total BTEX	0.00116	J	0.00398	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/10/21 11:38	08/11/21 03:21	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/10/21 11:38	08/11/21 03:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:51	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	08/10/21 09:08	08/10/21 19:51	1
o-Terphenyl	84		70 - 130	08/10/21 09:08	08/10/21 19:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		4.97	0.853	mg/Kg			08/11/21 12:27	1

Client Sample ID: SB-14-35

Lab Sample ID: 890-1074-20

Date Collected: 08/06/21 15:00

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 11:38	08/11/21 03:41	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 11:38	08/11/21 03:41	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 11:38	08/11/21 03:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:41	1
o-Xylene	0.000361	J	0.00200	0.000343	mg/Kg		08/10/21 11:38	08/11/21 03:41	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:41	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/10/21 11:38	08/11/21 03:41	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/10/21 11:38	08/11/21 03:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 20:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-14-35

Lab Sample ID: 890-1074-20

Date Collected: 08/06/21 15:00

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 20:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 20:12	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				08/10/21 09:08	08/10/21 20:12	1
o-Terphenyl	86		70 - 130				08/10/21 09:08	08/10/21 20:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		4.99	0.857	mg/Kg			08/11/21 12:33	1

Client Sample ID: SB-43-2

Lab Sample ID: 890-1074-21

Date Collected: 08/06/21 15:15

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				08/10/21 11:38	08/11/21 04:02	1
1,4-Difluorobenzene (Surr)	113		70 - 130				08/10/21 11:38	08/11/21 04:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 12:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 12:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 12:18	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				08/10/21 09:09	08/10/21 12:18	1
o-Terphenyl	150	S1+	70 - 130				08/10/21 09:09	08/10/21 12:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7240		50.5	8.67	mg/Kg			08/11/21 12:38	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-43-4

Lab Sample ID: 890-1074-22

Date Collected: 08/06/21 15:20

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000437	J	0.00201	0.000387	mg/Kg		08/10/21 11:38	08/11/21 05:51	1
Toluene	0.00164	J B	0.00201	0.000458	mg/Kg		08/10/21 11:38	08/11/21 05:51	1
Ethylbenzene	0.00195	J	0.00201	0.000567	mg/Kg		08/10/21 11:38	08/11/21 05:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 05:51	1
o-Xylene	0.00193	J	0.00201	0.000345	mg/Kg		08/10/21 11:38	08/11/21 05:51	1
Xylenes, Total	0.00193	J	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 05:51	1
Total BTEX	0.00596		0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	08/10/21 11:38	08/11/21 05:51	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/10/21 11:38	08/11/21 05:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 13:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 13:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 13:23	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	08/10/21 09:09	08/10/21 13:23	1
o-Terphenyl	119		70 - 130	08/10/21 09:09	08/10/21 13:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10700		49.8	8.55	mg/Kg			08/11/21 12:55	10

Client Sample ID: SB-43-25

Lab Sample ID: 890-1074-23

Date Collected: 08/06/21 15:50

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/10/21 11:38	08/11/21 06:12	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		08/10/21 11:38	08/11/21 06:12	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		08/10/21 11:38	08/11/21 06:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		08/10/21 11:38	08/11/21 06:12	1
o-Xylene	0.000794	J	0.00201	0.000346	mg/Kg		08/10/21 11:38	08/11/21 06:12	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		08/10/21 11:38	08/11/21 06:12	1
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg		08/10/21 11:38	08/11/21 06:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/10/21 11:38	08/11/21 06:12	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/10/21 11:38	08/11/21 06:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 13:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-43-25

Lab Sample ID: 890-1074-23

Date Collected: 08/06/21 15:50

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 13:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 13:45	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 13:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/10/21 09:09	08/10/21 13:45	1
o-Terphenyl	123		70 - 130				08/10/21 09:09	08/10/21 13:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1560		24.8	4.25	mg/Kg			08/12/21 11:02	5

Client Sample ID: SB-43-35

Lab Sample ID: 890-1074-24

Date Collected: 08/07/21 09:20

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130				08/11/21 10:00	08/11/21 22:02	1
1,4-Difluorobenzene (Surr)	144	S1+	70 - 130				08/11/21 10:00	08/11/21 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:06	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				08/10/21 09:09	08/10/21 14:06	1
o-Terphenyl	114		70 - 130				08/10/21 09:09	08/10/21 14:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1970		25.1	4.31	mg/Kg			08/11/21 13:05	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-43-40

Lab Sample ID: 890-1074-25

Date Collected: 08/07/21 09:30

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00351		0.00200	0.000386	mg/Kg		08/10/21 11:38	08/11/21 06:52	1
Toluene	0.00538	B	0.00200	0.000457	mg/Kg		08/10/21 11:38	08/11/21 06:52	1
Ethylbenzene	0.00340		0.00200	0.000566	mg/Kg		08/10/21 11:38	08/11/21 06:52	1
m-Xylene & p-Xylene	0.00327	J	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 06:52	1
o-Xylene	0.000881	J	0.00200	0.000345	mg/Kg		08/10/21 11:38	08/11/21 06:52	1
Xylenes, Total	0.00415		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 06:52	1
Total BTEX	0.0164		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 06:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	08/10/21 11:38	08/11/21 06:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/10/21 11:38	08/11/21 06:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 14:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 14:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 14:27	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/10/21 09:09	08/10/21 14:27	1
o-Terphenyl	114		70 - 130	08/10/21 09:09	08/10/21 14:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	391		4.97	0.853	mg/Kg			08/11/21 13:11	1

Client Sample ID: SB-43-45

Lab Sample ID: 890-1074-26

Date Collected: 08/07/21 10:30

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 11:38	08/11/21 07:13	1
Toluene	0.000502	J B	0.00200	0.000456	mg/Kg		08/10/21 11:38	08/11/21 07:13	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 11:38	08/11/21 07:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:13	1
o-Xylene	0.000563	J	0.00200	0.000344	mg/Kg		08/10/21 11:38	08/11/21 07:13	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:13	1
Total BTEX	0.00107	J	0.00400	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/10/21 11:38	08/11/21 07:13	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/10/21 11:38	08/11/21 07:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-43-45

Lab Sample ID: 890-1074-26

Date Collected: 08/07/21 10:30

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:49	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/10/21 09:09	08/10/21 14:49	1
o-Terphenyl	97		70 - 130				08/10/21 09:09	08/10/21 14:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	660		4.96	0.851	mg/Kg			08/11/21 13:16	1

Client Sample ID: SB-12-2

Lab Sample ID: 890-1074-27

Date Collected: 08/07/21 10:40

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				08/10/21 11:38	08/11/21 07:33	1
1,4-Difluorobenzene (Surr)	105		70 - 130				08/10/21 11:38	08/11/21 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 15:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 15:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 15:11	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/10/21 09:09	08/10/21 15:11	1
o-Terphenyl	118		70 - 130				08/10/21 09:09	08/10/21 15:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	938	F1	5.00	0.858	mg/Kg			08/11/21 13:22	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-12-4

Lab Sample ID: 890-1074-28

Date Collected: 08/07/21 10:45

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000988	J	0.00200	0.000384	mg/Kg		08/10/21 11:38	08/11/21 07:54	1
Toluene	0.00334	B	0.00200	0.000455	mg/Kg		08/10/21 11:38	08/11/21 07:54	1
Ethylbenzene	0.00360		0.00200	0.000564	mg/Kg		08/10/21 11:38	08/11/21 07:54	1
m-Xylene & p-Xylene	0.00256	J	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:54	1
o-Xylene	0.00241		0.00200	0.000343	mg/Kg		08/10/21 11:38	08/11/21 07:54	1
Xylenes, Total	0.00497		0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:54	1
Total BTEX	0.0129		0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	08/10/21 11:38	08/11/21 07:54	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/10/21 11:38	08/11/21 07:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:32	1
Diesel Range Organics (Over C10-C28)	15.1	J	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:32	1
Total TPH	15.1	J	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	08/10/21 09:09	08/10/21 15:32	1
o-Terphenyl	150	S1+	70 - 130	08/10/21 09:09	08/10/21 15:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10700		49.8	8.55	mg/Kg			08/11/21 13:38	10

Client Sample ID: SB-12-20

Lab Sample ID: 890-1074-29

Date Collected: 08/07/21 11:20

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 11:38	08/11/21 08:14	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 11:38	08/11/21 08:14	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 11:38	08/11/21 08:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 11:38	08/11/21 08:14	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/10/21 11:38	08/11/21 08:14	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 11:38	08/11/21 08:14	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 11:38	08/11/21 08:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	08/10/21 11:38	08/11/21 08:14	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/10/21 11:38	08/11/21 08:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-12-20

Lab Sample ID: 890-1074-29

Date Collected: 08/07/21 11:20

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:55	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				08/10/21 09:09	08/10/21 15:55	1
o-Terphenyl	146	S1+	70 - 130				08/10/21 09:09	08/10/21 15:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5310		24.9	4.27	mg/Kg			08/11/21 13:44	5

Client Sample ID: SB-12-40

Lab Sample ID: 890-1074-30

Date Collected: 08/07/21 12:00

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000407	J	0.00200	0.000386	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
Toluene	0.000889	J B	0.00200	0.000457	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
Ethylbenzene	0.000859	J	0.00200	0.000566	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
o-Xylene	0.000612	J	0.00200	0.000345	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
Total BTEX	0.00277	J	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				08/10/21 11:38	08/11/21 08:58	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/10/21 11:38	08/11/21 08:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 16:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 16:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 16:16	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				08/10/21 09:09	08/10/21 16:16	1
o-Terphenyl	158	S1+	70 - 130				08/10/21 09:09	08/10/21 16:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	774		4.95	0.850	mg/Kg			08/11/21 14:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-12-45

Lab Sample ID: 890-1074-31

Date Collected: 08/07/21 12:00

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0505		0.00200	0.000386	mg/Kg		08/10/21 11:38	08/11/21 09:19	1
Toluene	0.00602	B	0.00200	0.000457	mg/Kg		08/10/21 11:38	08/11/21 09:19	1
Ethylbenzene	0.0547		0.00200	0.000566	mg/Kg		08/10/21 11:38	08/11/21 09:19	1
m-Xylene & p-Xylene	0.0580		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 09:19	1
o-Xylene	0.0389		0.00200	0.000345	mg/Kg		08/10/21 11:38	08/11/21 09:19	1
Xylenes, Total	0.0969		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 09:19	1
Total BTEX	0.208		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	556	S1+	70 - 130	08/10/21 11:38	08/11/21 09:19	1
1,4-Difluorobenzene (Surr)	6	S1-	70 - 130	08/10/21 11:38	08/11/21 09:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:01	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	08/10/21 09:09	08/10/21 17:01	1
o-Terphenyl	138	S1+	70 - 130	08/10/21 09:09	08/10/21 17:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	605		5.04	0.865	mg/Kg			08/11/21 14:06	1

Client Sample ID: SB-38-2

Lab Sample ID: 890-1074-32

Date Collected: 08/07/21 13:15

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/10/21 09:18	08/10/21 15:05	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/10/21 09:18	08/10/21 15:05	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/10/21 09:18	08/10/21 15:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 09:18	08/10/21 15:05	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/10/21 09:18	08/10/21 15:05	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 09:18	08/10/21 15:05	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 09:18	08/10/21 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/10/21 09:18	08/10/21 15:05	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/10/21 09:18	08/10/21 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-38-2

Lab Sample ID: 890-1074-32

Date Collected: 08/07/21 13:15

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:23	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				08/10/21 09:09	08/10/21 17:23	1
o-Terphenyl	148	S1+	70 - 130				08/10/21 09:09	08/10/21 17:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.2		5.02	0.862	mg/Kg			08/11/21 14:11	1

Client Sample ID: SB-38-4

Lab Sample ID: 890-1074-33

Date Collected: 08/07/21 13:20

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/10/21 09:18	08/10/21 15:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/10/21 09:18	08/10/21 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:44	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/10/21 09:09	08/10/21 17:44	1
o-Terphenyl	122		70 - 130				08/10/21 09:09	08/10/21 17:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.4		4.97	0.853	mg/Kg			08/11/21 14:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-38-20

Lab Sample ID: 890-1074-34

Date Collected: 08/07/21 14:05

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 09:18	08/10/21 15:46	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 09:18	08/10/21 15:46	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 09:18	08/10/21 15:46	1
m-Xylene & p-Xylene	0.00144	J	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 15:46	1
o-Xylene	0.000570	J	0.00200	0.000343	mg/Kg		08/10/21 09:18	08/10/21 15:46	1
Xylenes, Total	0.00201	J	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 15:46	1
Total BTEX	0.00201	J	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/10/21 09:18	08/10/21 15:46	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/10/21 09:18	08/10/21 15:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:06	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	08/10/21 09:09	08/10/21 18:06	1
o-Terphenyl	123		70 - 130	08/10/21 09:09	08/10/21 18:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2680		24.8	4.25	mg/Kg			08/11/21 14:22	5

Client Sample ID: SB-38-40

Lab Sample ID: 890-1074-35

Date Collected: 08/07/21 14:25

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 09:18	08/10/21 16:06	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 09:18	08/10/21 16:06	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 09:18	08/10/21 16:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 16:06	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/10/21 09:18	08/10/21 16:06	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 16:06	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/10/21 09:18	08/10/21 16:06	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/10/21 09:18	08/10/21 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 18:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-38-40

Lab Sample ID: 890-1074-35

Date Collected: 08/07/21 14:25

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 18:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 18:28	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/10/21 09:09	08/10/21 18:28	1
o-Terphenyl	115		70 - 130				08/10/21 09:09	08/10/21 18:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.6		4.95	0.850	mg/Kg			08/11/21 14:28	1

Client Sample ID: SB-38-60

Lab Sample ID: 890-1074-36

Date Collected: 08/07/21 15:30

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				08/10/21 09:18	08/10/21 16:27	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/10/21 09:18	08/10/21 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:49	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				08/10/21 09:09	08/10/21 18:49	1
o-Terphenyl	106		70 - 130				08/10/21 09:09	08/10/21 18:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	412		4.95	0.850	mg/Kg			08/11/21 14:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-38-65

Lab Sample ID: 890-1074-37

Date Collected: 08/07/21 15:50

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:18	08/10/21 17:50	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 09:18	08/10/21 17:50	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/10/21 09:18	08/10/21 17:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:18	08/10/21 17:50	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/10/21 09:18	08/10/21 17:50	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:18	08/10/21 17:50	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:18	08/10/21 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/10/21 09:18	08/10/21 17:50	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/10/21 09:18	08/10/21 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:10	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/10/21 09:09	08/10/21 19:10	1
o-Terphenyl	111		70 - 130	08/10/21 09:09	08/10/21 19:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.5		4.98	0.855	mg/Kg			08/11/21 18:44	1

Client Sample ID: SB-37-2

Lab Sample ID: 890-1074-38

Date Collected: 08/07/21 16:10

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000401	J	0.00198	0.000381	mg/Kg		08/10/21 09:18	08/10/21 18:10	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/10/21 09:18	08/10/21 18:10	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/10/21 09:18	08/10/21 18:10	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 18:10	1
o-Xylene	0.000618	J	0.00198	0.000341	mg/Kg		08/10/21 09:18	08/10/21 18:10	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 18:10	1
Total BTEX	0.00102	J	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	08/10/21 09:18	08/10/21 18:10	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/10/21 09:18	08/10/21 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 19:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-37-2

Lab Sample ID: 890-1074-38

Date Collected: 08/07/21 16:10

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 19:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 19:31	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/10/21 09:09	08/10/21 19:31	1
o-Terphenyl	115		70 - 130				08/10/21 09:09	08/10/21 19:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.8		5.02	0.862	mg/Kg			08/11/21 19:01	1

Client Sample ID: SB-37-4

Lab Sample ID: 890-1074-39

Date Collected: 08/07/21 16:25

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/10/21 09:18	08/10/21 18:30	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/10/21 09:18	08/10/21 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:51	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/10/21 09:09	08/10/21 19:51	1
o-Terphenyl	116		70 - 130				08/10/21 09:09	08/10/21 19:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		4.95	0.850	mg/Kg			08/11/21 19:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-37-30

Lab Sample ID: 890-1074-40

Date Collected: 08/07/21 17:10

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/10/21 09:18	08/10/21 18:51	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/10/21 09:18	08/10/21 18:51	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/10/21 09:18	08/10/21 18:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:18	08/10/21 18:51	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/10/21 09:18	08/10/21 18:51	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:18	08/10/21 18:51	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:18	08/10/21 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/10/21 09:18	08/10/21 18:51	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/10/21 09:18	08/10/21 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 20:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 20:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 20:12	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	08/10/21 09:09	08/10/21 20:12	1
o-Terphenyl	128		70 - 130	08/10/21 09:09	08/10/21 20:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	986		4.98	0.855	mg/Kg			08/11/21 19:12	1

Client Sample ID: SB-35-4

Lab Sample ID: 890-1074-41

Date Collected: 08/08/21 12:25

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:18	08/10/21 19:11	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 09:18	08/10/21 19:11	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 09:18	08/10/21 19:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:18	08/10/21 19:11	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/10/21 09:18	08/10/21 19:11	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:18	08/10/21 19:11	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:18	08/10/21 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/10/21 09:18	08/10/21 19:11	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/10/21 09:18	08/10/21 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-35-4

Lab Sample ID: 890-1074-41

Date Collected: 08/08/21 12:25

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:01	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				08/10/21 09:07	08/10/21 17:01	1
o-Terphenyl	84		70 - 130				08/10/21 09:07	08/10/21 17:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	966		4.99	0.857	mg/Kg			08/11/21 19:18	1

Client Sample ID: SB-35-25

Lab Sample ID: 890-1074-42

Date Collected: 08/08/21 13:40

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				08/10/21 09:18	08/10/21 19:32	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/10/21 09:18	08/10/21 19:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:23	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/10/21 09:07	08/10/21 17:23	1
o-Terphenyl	90		70 - 130				08/10/21 09:07	08/10/21 17:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	860		4.99	0.857	mg/Kg			08/11/21 19:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-35-40

Lab Sample ID: 890-1074-43

Date Collected: 08/08/21 16:05

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 09:18	08/10/21 19:52	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 09:18	08/10/21 19:52	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 09:18	08/10/21 19:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 19:52	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/10/21 09:18	08/10/21 19:52	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 19:52	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/10/21 09:18	08/10/21 19:52	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/10/21 09:18	08/10/21 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 17:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 17:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 17:45	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/10/21 09:07	08/10/21 17:45	1
o-Terphenyl	94		70 - 130	08/10/21 09:07	08/10/21 17:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		4.95	0.850	mg/Kg			08/11/21 19:40	1

Client Sample ID: SB-35-45

Lab Sample ID: 890-1074-44

Date Collected: 08/08/21 16:20

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		08/10/21 09:18	08/10/21 20:12	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/10/21 09:18	08/10/21 20:12	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/10/21 09:18	08/10/21 20:12	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 20:12	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		08/10/21 09:18	08/10/21 20:12	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 20:12	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	08/10/21 09:18	08/10/21 20:12	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/10/21 09:18	08/10/21 20:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-35-45

Lab Sample ID: 890-1074-44

Date Collected: 08/08/21 16:20

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	30.1	J	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:07	1
Total TPH	30.1	J	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/10/21 09:07	08/10/21 18:07	1
o-Terphenyl	97		70 - 130				08/10/21 09:07	08/10/21 18:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	639		5.00	0.858	mg/Kg			08/11/21 19:46	1

Client Sample ID: SB-34-2

Lab Sample ID: 890-1074-45

Date Collected: 08/08/21 16:30

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/10/21 09:18	08/10/21 20:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/10/21 09:18	08/10/21 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:28	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				08/10/21 09:07	08/10/21 18:28	1
o-Terphenyl	94		70 - 130				08/10/21 09:07	08/10/21 18:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.8		5.02	0.862	mg/Kg			08/11/21 19:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-34-6

Lab Sample ID: 890-1074-46

Date Collected: 08/08/21 16:50

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		08/10/21 09:18	08/10/21 20:53	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/10/21 09:18	08/10/21 20:53	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/10/21 09:18	08/10/21 20:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 20:53	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		08/10/21 09:18	08/10/21 20:53	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 20:53	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/10/21 09:18	08/10/21 20:53	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/10/21 09:18	08/10/21 20:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 18:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 18:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 18:50	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/10/21 09:07	08/10/21 18:50	1
o-Terphenyl	95		70 - 130	08/10/21 09:07	08/10/21 18:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		4.98	0.855	mg/Kg			08/11/21 19:57	1

Client Sample ID: SB-34-4

Lab Sample ID: 890-1074-47

Date Collected: 08/08/21 16:55

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:24	08/11/21 00:15	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 09:24	08/11/21 00:15	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 09:24	08/11/21 00:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:24	08/11/21 00:15	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/10/21 09:24	08/11/21 00:15	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:24	08/11/21 00:15	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:24	08/11/21 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/10/21 09:24	08/11/21 00:15	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/10/21 09:24	08/11/21 00:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-34-4

Lab Sample ID: 890-1074-47

Date Collected: 08/08/21 16:55

Matrix: Solid

Date Received: 08/09/21 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:14	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				08/10/21 09:07	08/10/21 19:14	1
o-Terphenyl	90		70 - 130				08/10/21 09:07	08/10/21 19:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		5.00	0.858	mg/Kg			08/11/21 20:03	1

Client Sample ID: SB-34-15

Lab Sample ID: 890-1074-48

Date Collected: 08/08/21 17:05

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				08/10/21 09:24	08/11/21 00:35	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/10/21 09:24	08/11/21 00:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:37	1
Diesel Range Organics (Over C10-C28)	16.2	J	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:37	1
Total TPH	16.2	J	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				08/10/21 09:07	08/10/21 19:37	1
o-Terphenyl	94		70 - 130				08/10/21 09:07	08/10/21 19:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		4.97	0.853	mg/Kg			08/11/21 20:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-34-25

Lab Sample ID: 890-1074-49

Date Collected: 08/08/21 17:15

Matrix: Solid

Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 09:24	08/11/21 00:56	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 09:24	08/11/21 00:56	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 09:24	08/11/21 00:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:24	08/11/21 00:56	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/10/21 09:24	08/11/21 00:56	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:24	08/11/21 00:56	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:24	08/11/21 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/10/21 09:24	08/11/21 00:56	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/10/21 09:24	08/11/21 00:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:23	08/11/21 02:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:23	08/11/21 02:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:23	08/11/21 02:40	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:23	08/11/21 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	08/10/21 14:23	08/11/21 02:40	1
o-Terphenyl	126		70 - 130	08/10/21 14:23	08/11/21 02:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.5		4.99	0.857	mg/Kg			08/11/21 20:25	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1074-1	SB-44-2	113	116
890-1074-2	SB-44-4	111	80
890-1074-3	SB-44-8	117	109
890-1074-4	SB-44-25	139 S1+	112
890-1074-5	SB-44-30	135 S1+	108
890-1074-6	SB-15-2	118	112
890-1074-7	SB-15-4	118	113
890-1074-8	SB-15-6	129	109
890-1074-9	SB-15-35	122	116
890-1074-10	SB-15-40	123	109
890-1074-11	SB-15-45	126	106
890-1074-12	SB-16-2	114	106
890-1074-12 MS	SB-16-2	179 S1+	87
890-1074-12 MSD	SB-16-2	144 S1+	89
890-1074-13	SB-16-4	119	109
890-1074-14	SB-16-10	163 S1+	101
890-1074-15	SB-16-20	124	105
890-1074-16	SB-14-2	122	112
890-1074-17	SB-14-4	85	87
890-1074-18	SB-14-25	123	112
890-1074-19	SB-14-30	121	107
890-1074-20	SB-14-35	121	109
890-1074-21	SB-43-2	122	113
890-1074-22	SB-43-4	155 S1+	99
890-1074-23	SB-43-25	122	110
890-1074-24	SB-43-35	164 S1+	144 S1+
890-1074-25	SB-43-40	134 S1+	100
890-1074-26	SB-43-45	124	104
890-1074-27	SB-12-2	118	105
890-1074-28	SB-12-4	125	88
890-1074-29	SB-12-20	125	103
890-1074-30	SB-12-40	128	99
890-1074-31	SB-12-45	556 S1+	6 S1-
890-1074-32	SB-38-2	112	97
890-1074-33	SB-38-4	114	101
890-1074-34	SB-38-20	114	105
890-1074-35	SB-38-40	111	100
890-1074-36	SB-38-60	116	102
890-1074-37	SB-38-65	113	105
890-1074-38	SB-37-2	88	95
890-1074-39	SB-37-4	109	99
890-1074-40	SB-37-30	120	107
890-1074-41	SB-35-4	107	101
890-1074-42	SB-35-25	116	100
890-1074-43	SB-35-40	120	97
890-1074-44	SB-35-45	127	103
890-1074-45	SB-34-2	101	96
890-1074-46	SB-34-6	121	97
890-1074-47	SB-34-4	106	104

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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)
890-1074-47 MS	SB-34-4	115	104
890-1074-48	SB-34-15	119	96
890-1074-49	SB-34-25	114	97
LCS 880-6282/1-A	Lab Control Sample	100	106
LCS 880-6287/1-A	Lab Control Sample	105	106
LCS 880-6288/1-A	Lab Control Sample	112	104
LCS 880-6318/1-A	Lab Control Sample	102	100
LCS 880-6336/1-A	Lab Control Sample	149 S1+	116
LCSD 880-6282/2-A	Lab Control Sample Dup	101	102
LCSD 880-6287/2-A	Lab Control Sample Dup	103	106
LCSD 880-6288/2-A	Lab Control Sample Dup	106	104
LCSD 880-6318/2-A	Lab Control Sample Dup	102	103
LCSD 880-6336/2-A	Lab Control Sample Dup	153 S1+	124
MB 880-6282/5-A	Method Blank	118	105
MB 880-6287/5-A	Method Blank	97	98
MB 880-6288/5-A	Method Blank	135 S1+	97
MB 880-6318/5-A	Method Blank	126	101
MB 880-6336/5-A	Method Blank	99	104
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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
890-1074-47 MSD	SB-34-4		
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)
890-1074-1	SB-44-2	90	93
890-1074-1 MS	SB-44-2	86	82
890-1074-1 MSD	SB-44-2	86	81
890-1074-2	SB-44-4	93	98
890-1074-3	SB-44-8	89	93
890-1074-4	SB-44-25	85	86
890-1074-5	SB-44-30	86	86
890-1074-6	SB-15-2	90	91
890-1074-7	SB-15-4	97	100
890-1074-8	SB-15-6	89	90
890-1074-9	SB-15-35	93	96

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-1074-10	SB-15-40	84	87
890-1074-11	SB-15-45	99	105
890-1074-12	SB-16-2	90	95
890-1074-13	SB-16-4	85	86
890-1074-14	SB-16-10	86	90
890-1074-15	SB-16-20	90	96
890-1074-16	SB-14-2	89	94
890-1074-17	SB-14-4	92	99
890-1074-18	SB-14-25	82	88
890-1074-19	SB-14-30	82	84
890-1074-20	SB-14-35	84	86
890-1074-21	SB-43-2	123	150 S1+
890-1074-21 MS	SB-43-2	100	111
890-1074-21 MSD	SB-43-2	93	104
890-1074-22	SB-43-4	93	119
890-1074-23	SB-43-25	98	123
890-1074-24	SB-43-35	93	114
890-1074-25	SB-43-40	96	114
890-1074-26	SB-43-45	83	97
890-1074-27	SB-12-2	99	118
890-1074-28	SB-12-4	120	150 S1+
890-1074-29	SB-12-20	111	146 S1+
890-1074-30	SB-12-40	128	158 S1+
890-1074-31	SB-12-45	114	138 S1+
890-1074-32	SB-38-2	113	148 S1+
890-1074-33	SB-38-4	99	122
890-1074-34	SB-38-20	97	123
890-1074-35	SB-38-40	90	115
890-1074-36	SB-38-60	89	106
890-1074-37	SB-38-65	89	111
890-1074-38	SB-37-2	96	115
890-1074-39	SB-37-4	98	116
890-1074-40	SB-37-30	105	128
890-1074-41	SB-35-4	80	84
890-1074-42	SB-35-25	85	90
890-1074-43	SB-35-40	89	94
890-1074-44	SB-35-45	92	97
890-1074-45	SB-34-2	89	94
890-1074-46	SB-34-6	89	95
890-1074-47	SB-34-4	84	90
890-1074-48	SB-34-15	89	94
890-1074-49	SB-34-25	103	126
LCS 880-6284/2-A	Lab Control Sample	83	79
LCS 880-6285/2-A	Lab Control Sample	86	83
LCS 880-6286/2-A	Lab Control Sample	109	118
LCS 880-6329/2-A	Lab Control Sample	90	98
LCSD 880-6284/3-A	Lab Control Sample Dup	89	85
LCSD 880-6285/3-A	Lab Control Sample Dup	85	81
LCSD 880-6286/3-A	Lab Control Sample Dup	114	119
LCSD 880-6329/3-A	Lab Control Sample Dup	90	96

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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 880-6284/1-A	Method Blank	96	101
MB 880-6285/1-A	Method Blank	83	88
MB 880-6286/1-A	Method Blank	96	123
MB 880-6329/1-A	Method Blank	94	114
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6282/5-A

Matrix: Solid

Analysis Batch: 6279

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 08:51	08/10/21 12:53	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 08:51	08/10/21 12:53	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 08:51	08/10/21 12:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 08:51	08/10/21 12:53	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 08:51	08/10/21 12:53	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 08:51	08/10/21 12:53	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 08:51	08/10/21 12:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/10/21 08:51	08/10/21 12:53	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/10/21 08:51	08/10/21 12:53	1

Lab Sample ID: LCS 880-6282/1-A

Matrix: Solid

Analysis Batch: 6279

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09922		mg/Kg		99	70 - 130
Toluene	0.100	0.08677		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08938		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1850		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09310		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-6282/2-A

Matrix: Solid

Analysis Batch: 6279

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6282

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1049		mg/Kg		105	70 - 130	6	35
Toluene	0.100	0.09319		mg/Kg		93	70 - 130	7	35
Ethylbenzene	0.100	0.09711		mg/Kg		97	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130	8	35
o-Xylene	0.100	0.09965		mg/Kg		100	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-6287/5-A

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:18	08/10/21 13:01	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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

Lab Sample ID: MB 880-6287/5-A

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 13:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/10/21 09:18	08/10/21 13:01	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/10/21 09:18	08/10/21 13:01	1

Lab Sample ID: LCS 880-6287/1-A

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6287

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09319		mg/Kg		93	70 - 130
Toluene	0.100	0.08895		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.08853		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1781		mg/Kg		89	70 - 130
o-Xylene	0.100	0.09060		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-6287/2-A

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6287

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09538		mg/Kg		95	70 - 130	2	35
Toluene	0.100	0.08810		mg/Kg		88	70 - 130	1	35
Ethylbenzene	0.100	0.08732		mg/Kg		87	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1742		mg/Kg		87	70 - 130	2	35
o-Xylene	0.100	0.08815		mg/Kg		88	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-6288/5-A

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:24	08/10/21 23:54	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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

Lab Sample ID: MB 880-6288/5-A

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/10/21 23:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	08/10/21 09:24	08/10/21 23:54	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/10/21 09:24	08/10/21 23:54	1

Lab Sample ID: LCS 880-6288/1-A

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08756		mg/Kg		88	70 - 130
Toluene	0.100	0.08601		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08731		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08985		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-6288/2-A

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6288

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08313		mg/Kg		83	70 - 130	5	35
Toluene	0.100	0.07869		mg/Kg		79	70 - 130	9	35
Ethylbenzene	0.100	0.07898		mg/Kg		79	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1600		mg/Kg		80	70 - 130	11	35
o-Xylene	0.100	0.08117		mg/Kg		81	70 - 130	10	35

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

Lab Sample ID: 890-1074-47 MSD

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: SB-34-4

Prep Type: Total/NA

Prep Batch: 6288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.000383	U	0.0990	0.08169		mg/Kg					
Toluene	<0.000453	U	0.0990	0.07902		mg/Kg					
Ethylbenzene	<0.000562	U	0.0990	0.08022		mg/Kg					

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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

Lab Sample ID: 890-1074-47 MSD

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: SB-34-4

Prep Type: Total/NA

Prep Batch: 6288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00100	U	0.198	0.1610		mg/Kg					
o-Xylene	<0.000342	U	0.0990	0.08207		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1074-47 MS

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: SB-34-4

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-6318/5-A

Matrix: Solid

Analysis Batch: 6279

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 11:38	08/11/21 00:29	1
Toluene	0.0007736	J	0.00200	0.000456	mg/Kg		08/10/21 11:38	08/11/21 00:29	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 11:38	08/11/21 00:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 11:38	08/11/21 00:29	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 11:38	08/11/21 00:29	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 11:38	08/11/21 00:29	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 11:38	08/11/21 00:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	08/10/21 11:38	08/11/21 00:29	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/10/21 11:38	08/11/21 00:29	1

Lab Sample ID: LCS 880-6318/1-A

Matrix: Solid

Analysis Batch: 6279

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08097		mg/Kg		81	70 - 130
Toluene	0.100	0.07610		mg/Kg		76	70 - 130
Ethylbenzene	0.100	0.08501		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.200	0.1746		mg/Kg		87	70 - 130
o-Xylene	0.100	0.08994		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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

Lab Sample ID: LCSD 880-6318/2-A

Matrix: Solid

Analysis Batch: 6279

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6318

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08816		mg/Kg		88	70 - 130	9	35
Toluene	0.100	0.08107		mg/Kg		81	70 - 130	6	35
Ethylbenzene	0.100	0.08748		mg/Kg		87	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1786		mg/Kg		89	70 - 130	2	35
o-Xylene	0.100	0.09210		mg/Kg		92	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1074-12 MS

Matrix: Solid

Analysis Batch: 6279

Client Sample ID: SB-16-2

Prep Type: Total/NA

Prep Batch: 6318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1	0.0998	0.06552	F1	mg/Kg		66	70 - 130		
Toluene	<0.00199	U	0.0998	0.08651		mg/Kg		87	70 - 130		
Ethylbenzene	<0.00199	U	0.0998	0.09619		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2082		mg/Kg		104	70 - 130		
o-Xylene	0.000736	J	0.0998	0.1168		mg/Kg		116	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-1074-12 MSD

Matrix: Solid

Analysis Batch: 6279

Client Sample ID: SB-16-2

Prep Type: Total/NA

Prep Batch: 6318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1	0.0994	0.05719	F1	mg/Kg		58	70 - 130	14	35
Toluene	<0.00199	U	0.0994	0.06931		mg/Kg		70	70 - 130	22	35
Ethylbenzene	<0.00199	U	0.0994	0.08714		mg/Kg		88	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1943		mg/Kg		98	70 - 130	7	35
o-Xylene	0.000736	J	0.0994	0.1043		mg/Kg		104	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: MB 880-6336/5-A

Matrix: Solid

Analysis Batch: 6356

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/11/21 10:00	08/11/21 17:46	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/11/21 10:00	08/11/21 17:46	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/11/21 10:00	08/11/21 17:46	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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

Lab Sample ID: MB 880-6336/5-A

Matrix: Solid

Analysis Batch: 6356

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/11/21 10:00	08/11/21 17:46	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/11/21 10:00	08/11/21 17:46	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/11/21 10:00	08/11/21 17:46	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/11/21 10:00	08/11/21 17:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/11/21 10:00	08/11/21 17:46	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/11/21 10:00	08/11/21 17:46	1

Lab Sample ID: LCS 880-6336/1-A

Matrix: Solid

Analysis Batch: 6356

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1273		mg/Kg		127	70 - 130
Toluene	0.100	0.1226		mg/Kg		123	70 - 130
Ethylbenzene	0.100	0.1171		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2312		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1140		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: LCSD 880-6336/2-A

Matrix: Solid

Analysis Batch: 6356

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6336

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1226		mg/Kg		123	70 - 130	4	35
Toluene	0.100	0.1158		mg/Kg		116	70 - 130	6	35
Ethylbenzene	0.100	0.1269		mg/Kg		127	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2514		mg/Kg		126	70 - 130	8	35
o-Xylene	0.100	0.1258		mg/Kg		126	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130
1,4-Difluorobenzene (Surr)	124		70 - 130

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

Lab Sample ID: MB 880-6284/1-A

Matrix: Solid

Analysis Batch: 6276

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 10:26	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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

Lab Sample ID: MB 880-6284/1-A

Matrix: Solid

Analysis Batch: 6276

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 10:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 10:26	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 10:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/10/21 09:07	08/10/21 10:26	1
o-Terphenyl	101		70 - 130	08/10/21 09:07	08/10/21 10:26	1

Lab Sample ID: LCS 880-6284/2-A

Matrix: Solid

Analysis Batch: 6276

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	896.8		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	940.1		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: LCSD 880-6284/3-A

Matrix: Solid

Analysis Batch: 6276

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6284

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1110	*1	mg/Kg		111	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	1000	1016		mg/Kg		102	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: MB 880-6285/1-A

Matrix: Solid

Analysis Batch: 6270

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 11:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 11:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 11:15	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 11:15	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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

Lab Sample ID: MB 880-6285/1-A

Matrix: Solid

Analysis Batch: 6270

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6285

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	08/10/21 09:08	08/10/21 11:15	1
o-Terphenyl	88		70 - 130	08/10/21 09:08	08/10/21 11:15	1

Lab Sample ID: LCS 880-6285/2-A

Matrix: Solid

Analysis Batch: 6270

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	912.8		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	871.8		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: LCSD 880-6285/3-A

Matrix: Solid

Analysis Batch: 6270

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6285

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	834.7		mg/Kg		83	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	861.6		mg/Kg		86	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 890-1074-1 MS

Matrix: Solid

Analysis Batch: 6270

Client Sample ID: SB-44-2

Prep Type: Total/NA

Prep Batch: 6285

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 890-1074-1 MSD

Matrix: Solid

Analysis Batch: 6270

Client Sample ID: SB-44-2

Prep Type: Total/NA

Prep Batch: 6285

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	81		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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

Lab Sample ID: MB 880-6286/1-A

Matrix: Solid

Analysis Batch: 6272

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6286

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 11:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 11:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 11:15	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/10/21 09:09	08/10/21 11:15	1
o-Terphenyl	123		70 - 130	08/10/21 09:09	08/10/21 11:15	1

Lab Sample ID: LCS 880-6286/2-A

Matrix: Solid

Analysis Batch: 6272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1002		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1164		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: LCSD 880-6286/3-A

Matrix: Solid

Analysis Batch: 6272

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6286

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1052		mg/Kg		105	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1194		mg/Kg		119	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: 890-1074-21 MS

Matrix: Solid

Analysis Batch: 6272

Client Sample ID: SB-43-2

Prep Type: Total/NA

Prep Batch: 6286

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	111		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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

Lab Sample ID: 890-1074-21 MSD

Matrix: Solid

Analysis Batch: 6272

Client Sample ID: SB-43-2

Prep Type: Total/NA

Prep Batch: 6286

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: MB 880-6329/1-A

Matrix: Solid

Analysis Batch: 6274

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:23	08/10/21 20:20	1
Diesel Range Organics (Over C10-C28)	15.58	J	50.0	15.0	mg/Kg		08/10/21 14:23	08/10/21 20:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:23	08/10/21 20:20	1
Total TPH	15.58	J	50.0	15.0	mg/Kg		08/10/21 14:23	08/10/21 20:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	08/10/21 14:23	08/10/21 20:20	1
o-Terphenyl	114		70 - 130	08/10/21 14:23	08/10/21 20:20	1

Lab Sample ID: LCS 880-6329/2-A

Matrix: Solid

Analysis Batch: 6274

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	894.6		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1085		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-6329/3-A

Matrix: Solid

Analysis Batch: 6274

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6329

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	995.3		mg/Kg		100	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	1087		mg/Kg		109	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	96		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6316/1-A

Matrix: Solid

Analysis Batch: 6391

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/11/21 10:14	1

Lab Sample ID: LCS 880-6316/2-A

Matrix: Solid

Analysis Batch: 6391

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.2		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-6316/3-A

Matrix: Solid

Analysis Batch: 6391

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	250.6		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1074-11 MS

Matrix: Solid

Analysis Batch: 6391

Client Sample ID: SB-15-45

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	257		248	490.1		mg/Kg		94	90 - 110

Lab Sample ID: 890-1074-11 MSD

Matrix: Solid

Analysis Batch: 6391

Client Sample ID: SB-15-45

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	257		248	489.9		mg/Kg		94	90 - 110	0	20

Lab Sample ID: MB 880-6317/1-A

Matrix: Solid

Analysis Batch: 6392

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/11/21 11:49	1

Lab Sample ID: LCS 880-6317/2-A

Matrix: Solid

Analysis Batch: 6392

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	257.3		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-6317/3-A

Matrix: Solid

Analysis Batch: 6392

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	257.4		mg/Kg		103	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1074-17 MS

Matrix: Solid

Analysis Batch: 6392

Client Sample ID: SB-14-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1130		248	1343	4	mg/Kg		87	90 - 110		

Lab Sample ID: 890-1074-17 MSD

Matrix: Solid

Analysis Batch: 6392

Client Sample ID: SB-14-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1130		248	1341	4	mg/Kg		86	90 - 110	0	20

Lab Sample ID: 890-1074-27 MS

Matrix: Solid

Analysis Batch: 6392

Client Sample ID: SB-12-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	938	F1	250	1153	F1	mg/Kg		86	90 - 110		

Lab Sample ID: 890-1074-27 MSD

Matrix: Solid

Analysis Batch: 6392

Client Sample ID: SB-12-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	938	F1	250	1151	F1	mg/Kg		85	90 - 110	0	20

Lab Sample ID: MB 880-6319/1-A

Matrix: Solid

Analysis Batch: 6396

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/11/21 18:27	1

Lab Sample ID: LCS 880-6319/2-A

Matrix: Solid

Analysis Batch: 6396

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	259.3		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-6319/3-A

Matrix: Solid

Analysis Batch: 6396

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	259.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-1074-37 MS

Matrix: Solid

Analysis Batch: 6396

Client Sample ID: SB-38-65

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	64.5		249	314.8		mg/Kg		101	90 - 110		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1074-37 MSD

Matrix: Solid

Analysis Batch: 6396

Client Sample ID: SB-38-65

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	64.5		249	313.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1074-47 MS

Matrix: Solid

Analysis Batch: 6396

Client Sample ID: SB-34-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	23.8		250	271.8		mg/Kg		99	90 - 110		

Lab Sample ID: 890-1074-47 MSD

Matrix: Solid

Analysis Batch: 6396

Client Sample ID: SB-34-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	23.8		250	272.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-6320/1-A

Matrix: Solid

Analysis Batch: 6399

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/12/21 00:54	1

Lab Sample ID: LCS 880-6320/2-A

Matrix: Solid

Analysis Batch: 6399

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	267.0		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-6320/3-A

Matrix: Solid

Analysis Batch: 6399

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	267.3		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-1074-5 MS

Matrix: Solid

Analysis Batch: 6399

Client Sample ID: SB-44-30

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	96.6		250	351.4		mg/Kg		102	90 - 110		

Lab Sample ID: 890-1074-5 MSD

Matrix: Solid

Analysis Batch: 6399

Client Sample ID: SB-44-30

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	96.6		250	351.7		mg/Kg		102	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC VOA

Analysis Batch: 6279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-1	SB-44-2	Total/NA	Solid	8021B	6282
890-1074-2	SB-44-4	Total/NA	Solid	8021B	6282
890-1074-3	SB-44-8	Total/NA	Solid	8021B	6282
890-1074-4	SB-44-25	Total/NA	Solid	8021B	6282
890-1074-5	SB-44-30	Total/NA	Solid	8021B	6282
890-1074-6	SB-15-2	Total/NA	Solid	8021B	6282
890-1074-7	SB-15-4	Total/NA	Solid	8021B	6282
890-1074-8	SB-15-6	Total/NA	Solid	8021B	6282
890-1074-9	SB-15-35	Total/NA	Solid	8021B	6282
890-1074-10	SB-15-40	Total/NA	Solid	8021B	6282
890-1074-11	SB-15-45	Total/NA	Solid	8021B	6282
890-1074-12	SB-16-2	Total/NA	Solid	8021B	6318
890-1074-13	SB-16-4	Total/NA	Solid	8021B	6318
890-1074-14	SB-16-10	Total/NA	Solid	8021B	6318
890-1074-15	SB-16-20	Total/NA	Solid	8021B	6318
890-1074-16	SB-14-2	Total/NA	Solid	8021B	6318
890-1074-17	SB-14-4	Total/NA	Solid	8021B	6318
890-1074-18	SB-14-25	Total/NA	Solid	8021B	6318
890-1074-19	SB-14-30	Total/NA	Solid	8021B	6318
890-1074-20	SB-14-35	Total/NA	Solid	8021B	6318
890-1074-21	SB-43-2	Total/NA	Solid	8021B	6318
890-1074-22	SB-43-4	Total/NA	Solid	8021B	6318
890-1074-23	SB-43-25	Total/NA	Solid	8021B	6318
890-1074-25	SB-43-40	Total/NA	Solid	8021B	6318
890-1074-26	SB-43-45	Total/NA	Solid	8021B	6318
890-1074-27	SB-12-2	Total/NA	Solid	8021B	6318
890-1074-28	SB-12-4	Total/NA	Solid	8021B	6318
890-1074-29	SB-12-20	Total/NA	Solid	8021B	6318
890-1074-30	SB-12-40	Total/NA	Solid	8021B	6318
890-1074-31	SB-12-45	Total/NA	Solid	8021B	6318
MB 880-6282/5-A	Method Blank	Total/NA	Solid	8021B	6282
MB 880-6318/5-A	Method Blank	Total/NA	Solid	8021B	6318
LCS 880-6282/1-A	Lab Control Sample	Total/NA	Solid	8021B	6282
LCS 880-6318/1-A	Lab Control Sample	Total/NA	Solid	8021B	6318
LCSD 880-6282/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6282
LCSD 880-6318/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6318
890-1074-12 MS	SB-16-2	Total/NA	Solid	8021B	6318
890-1074-12 MSD	SB-16-2	Total/NA	Solid	8021B	6318

Prep Batch: 6282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-1	SB-44-2	Total/NA	Solid	5035	
890-1074-2	SB-44-4	Total/NA	Solid	5035	
890-1074-3	SB-44-8	Total/NA	Solid	5035	
890-1074-4	SB-44-25	Total/NA	Solid	5035	
890-1074-5	SB-44-30	Total/NA	Solid	5035	
890-1074-6	SB-15-2	Total/NA	Solid	5035	
890-1074-7	SB-15-4	Total/NA	Solid	5035	
890-1074-8	SB-15-6	Total/NA	Solid	5035	
890-1074-9	SB-15-35	Total/NA	Solid	5035	
890-1074-10	SB-15-40	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC VOA (Continued)

Prep Batch: 6282 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-11	SB-15-45	Total/NA	Solid	5035	
MB 880-6282/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6282/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6282/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 6287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-32	SB-38-2	Total/NA	Solid	5035	
890-1074-33	SB-38-4	Total/NA	Solid	5035	
890-1074-34	SB-38-20	Total/NA	Solid	5035	
890-1074-35	SB-38-40	Total/NA	Solid	5035	
890-1074-36	SB-38-60	Total/NA	Solid	5035	
890-1074-37	SB-38-65	Total/NA	Solid	5035	
890-1074-38	SB-37-2	Total/NA	Solid	5035	
890-1074-39	SB-37-4	Total/NA	Solid	5035	
890-1074-40	SB-37-30	Total/NA	Solid	5035	
890-1074-41	SB-35-4	Total/NA	Solid	5035	
890-1074-42	SB-35-25	Total/NA	Solid	5035	
890-1074-43	SB-35-40	Total/NA	Solid	5035	
890-1074-44	SB-35-45	Total/NA	Solid	5035	
890-1074-45	SB-34-2	Total/NA	Solid	5035	
890-1074-46	SB-34-6	Total/NA	Solid	5035	
MB 880-6287/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6287/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6287/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 6288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-47	SB-34-4	Total/NA	Solid	5035	
890-1074-48	SB-34-15	Total/NA	Solid	5035	
890-1074-49	SB-34-25	Total/NA	Solid	5035	
MB 880-6288/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6288/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6288/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1074-47 MSD	SB-34-4	Total/NA	Solid	5035	

Analysis Batch: 6292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-32	SB-38-2	Total/NA	Solid	8021B	6287
890-1074-33	SB-38-4	Total/NA	Solid	8021B	6287
890-1074-34	SB-38-20	Total/NA	Solid	8021B	6287
890-1074-35	SB-38-40	Total/NA	Solid	8021B	6287
890-1074-36	SB-38-60	Total/NA	Solid	8021B	6287
890-1074-37	SB-38-65	Total/NA	Solid	8021B	6287
890-1074-38	SB-37-2	Total/NA	Solid	8021B	6287
890-1074-39	SB-37-4	Total/NA	Solid	8021B	6287
890-1074-40	SB-37-30	Total/NA	Solid	8021B	6287
890-1074-41	SB-35-4	Total/NA	Solid	8021B	6287
890-1074-42	SB-35-25	Total/NA	Solid	8021B	6287
890-1074-43	SB-35-40	Total/NA	Solid	8021B	6287
890-1074-44	SB-35-45	Total/NA	Solid	8021B	6287

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC VOA (Continued)

Analysis Batch: 6292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-45	SB-34-2	Total/NA	Solid	8021B	6287
890-1074-46	SB-34-6	Total/NA	Solid	8021B	6287
890-1074-47	SB-34-4	Total/NA	Solid	8021B	6288
890-1074-48	SB-34-15	Total/NA	Solid	8021B	6288
890-1074-49	SB-34-25	Total/NA	Solid	8021B	6288
MB 880-6287/5-A	Method Blank	Total/NA	Solid	8021B	6287
MB 880-6288/5-A	Method Blank	Total/NA	Solid	8021B	6288
LCS 880-6287/1-A	Lab Control Sample	Total/NA	Solid	8021B	6287
LCS 880-6288/1-A	Lab Control Sample	Total/NA	Solid	8021B	6288
LCSD 880-6287/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6287
LCSD 880-6288/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6288
890-1074-47 MS	SB-34-4	Total/NA	Solid	8021B	
890-1074-47 MSD	SB-34-4	Total/NA	Solid	8021B	6288

Prep Batch: 6318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-12	SB-16-2	Total/NA	Solid	5035	
890-1074-13	SB-16-4	Total/NA	Solid	5035	
890-1074-14	SB-16-10	Total/NA	Solid	5035	
890-1074-15	SB-16-20	Total/NA	Solid	5035	
890-1074-16	SB-14-2	Total/NA	Solid	5035	
890-1074-17	SB-14-4	Total/NA	Solid	5035	
890-1074-18	SB-14-25	Total/NA	Solid	5035	
890-1074-19	SB-14-30	Total/NA	Solid	5035	
890-1074-20	SB-14-35	Total/NA	Solid	5035	
890-1074-21	SB-43-2	Total/NA	Solid	5035	
890-1074-22	SB-43-4	Total/NA	Solid	5035	
890-1074-23	SB-43-25	Total/NA	Solid	5035	
890-1074-25	SB-43-40	Total/NA	Solid	5035	
890-1074-26	SB-43-45	Total/NA	Solid	5035	
890-1074-27	SB-12-2	Total/NA	Solid	5035	
890-1074-28	SB-12-4	Total/NA	Solid	5035	
890-1074-29	SB-12-20	Total/NA	Solid	5035	
890-1074-30	SB-12-40	Total/NA	Solid	5035	
890-1074-31	SB-12-45	Total/NA	Solid	5035	
MB 880-6318/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6318/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6318/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1074-12 MS	SB-16-2	Total/NA	Solid	5035	
890-1074-12 MSD	SB-16-2	Total/NA	Solid	5035	

Prep Batch: 6336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-24	SB-43-35	Total/NA	Solid	5035	
MB 880-6336/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6336/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6336/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 6356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-24	SB-43-35	Total/NA	Solid	8021B	6336

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC VOA (Continued)

Analysis Batch: 6356 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6336/5-A	Method Blank	Total/NA	Solid	8021B	6336
LCS 880-6336/1-A	Lab Control Sample	Total/NA	Solid	8021B	6336
LCSD 880-6336/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6336

GC Semi VOA

Analysis Batch: 6270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-1	SB-44-2	Total/NA	Solid	8015B NM	6285
890-1074-2	SB-44-4	Total/NA	Solid	8015B NM	6285
890-1074-3	SB-44-8	Total/NA	Solid	8015B NM	6285
890-1074-4	SB-44-25	Total/NA	Solid	8015B NM	6285
890-1074-5	SB-44-30	Total/NA	Solid	8015B NM	6285
890-1074-6	SB-15-2	Total/NA	Solid	8015B NM	6285
890-1074-7	SB-15-4	Total/NA	Solid	8015B NM	6285
890-1074-8	SB-15-6	Total/NA	Solid	8015B NM	6285
890-1074-9	SB-15-35	Total/NA	Solid	8015B NM	6285
890-1074-10	SB-15-40	Total/NA	Solid	8015B NM	6285
890-1074-11	SB-15-45	Total/NA	Solid	8015B NM	6285
890-1074-12	SB-16-2	Total/NA	Solid	8015B NM	6285
890-1074-13	SB-16-4	Total/NA	Solid	8015B NM	6285
890-1074-14	SB-16-10	Total/NA	Solid	8015B NM	6285
890-1074-15	SB-16-20	Total/NA	Solid	8015B NM	6285
890-1074-16	SB-14-2	Total/NA	Solid	8015B NM	6285
890-1074-17	SB-14-4	Total/NA	Solid	8015B NM	6285
890-1074-18	SB-14-25	Total/NA	Solid	8015B NM	6285
890-1074-19	SB-14-30	Total/NA	Solid	8015B NM	6285
890-1074-20	SB-14-35	Total/NA	Solid	8015B NM	6285
MB 880-6285/1-A	Method Blank	Total/NA	Solid	8015B NM	6285
LCS 880-6285/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6285
LCSD 880-6285/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6285
890-1074-1 MS	SB-44-2	Total/NA	Solid	8015B NM	6285
890-1074-1 MSD	SB-44-2	Total/NA	Solid	8015B NM	6285

Analysis Batch: 6272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-21	SB-43-2	Total/NA	Solid	8015B NM	6286
890-1074-22	SB-43-4	Total/NA	Solid	8015B NM	6286
890-1074-23	SB-43-25	Total/NA	Solid	8015B NM	6286
890-1074-24	SB-43-35	Total/NA	Solid	8015B NM	6286
890-1074-25	SB-43-40	Total/NA	Solid	8015B NM	6286
890-1074-26	SB-43-45	Total/NA	Solid	8015B NM	6286
890-1074-27	SB-12-2	Total/NA	Solid	8015B NM	6286
890-1074-28	SB-12-4	Total/NA	Solid	8015B NM	6286
890-1074-29	SB-12-20	Total/NA	Solid	8015B NM	6286
890-1074-30	SB-12-40	Total/NA	Solid	8015B NM	6286
890-1074-31	SB-12-45	Total/NA	Solid	8015B NM	6286
890-1074-32	SB-38-2	Total/NA	Solid	8015B NM	6286
890-1074-33	SB-38-4	Total/NA	Solid	8015B NM	6286
890-1074-34	SB-38-20	Total/NA	Solid	8015B NM	6286
890-1074-35	SB-38-40	Total/NA	Solid	8015B NM	6286

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 6272 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-36	SB-38-60	Total/NA	Solid	8015B NM	6286
890-1074-37	SB-38-65	Total/NA	Solid	8015B NM	6286
890-1074-38	SB-37-2	Total/NA	Solid	8015B NM	6286
890-1074-39	SB-37-4	Total/NA	Solid	8015B NM	6286
890-1074-40	SB-37-30	Total/NA	Solid	8015B NM	6286
MB 880-6286/1-A	Method Blank	Total/NA	Solid	8015B NM	6286
LCS 880-6286/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6286
LCSD 880-6286/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6286
890-1074-21 MS	SB-43-2	Total/NA	Solid	8015B NM	6286
890-1074-21 MSD	SB-43-2	Total/NA	Solid	8015B NM	6286

Analysis Batch: 6274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-49	SB-34-25	Total/NA	Solid	8015B NM	6329
MB 880-6329/1-A	Method Blank	Total/NA	Solid	8015B NM	6329
LCS 880-6329/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6329
LCSD 880-6329/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6329

Analysis Batch: 6276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-41	SB-35-4	Total/NA	Solid	8015B NM	6284
890-1074-42	SB-35-25	Total/NA	Solid	8015B NM	6284
890-1074-43	SB-35-40	Total/NA	Solid	8015B NM	6284
890-1074-44	SB-35-45	Total/NA	Solid	8015B NM	6284
890-1074-45	SB-34-2	Total/NA	Solid	8015B NM	6284
890-1074-46	SB-34-6	Total/NA	Solid	8015B NM	6284
890-1074-47	SB-34-4	Total/NA	Solid	8015B NM	6284
890-1074-48	SB-34-15	Total/NA	Solid	8015B NM	6284
MB 880-6284/1-A	Method Blank	Total/NA	Solid	8015B NM	6284
LCS 880-6284/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6284
LCSD 880-6284/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6284

Prep Batch: 6284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-41	SB-35-4	Total/NA	Solid	8015NM Prep	
890-1074-42	SB-35-25	Total/NA	Solid	8015NM Prep	
890-1074-43	SB-35-40	Total/NA	Solid	8015NM Prep	
890-1074-44	SB-35-45	Total/NA	Solid	8015NM Prep	
890-1074-45	SB-34-2	Total/NA	Solid	8015NM Prep	
890-1074-46	SB-34-6	Total/NA	Solid	8015NM Prep	
890-1074-47	SB-34-4	Total/NA	Solid	8015NM Prep	
890-1074-48	SB-34-15	Total/NA	Solid	8015NM Prep	
MB 880-6284/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6284/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6284/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 6285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-1	SB-44-2	Total/NA	Solid	8015NM Prep	
890-1074-2	SB-44-4	Total/NA	Solid	8015NM Prep	
890-1074-3	SB-44-8	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC Semi VOA (Continued)

Prep Batch: 6285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-4	SB-44-25	Total/NA	Solid	8015NM Prep	
890-1074-5	SB-44-30	Total/NA	Solid	8015NM Prep	
890-1074-6	SB-15-2	Total/NA	Solid	8015NM Prep	
890-1074-7	SB-15-4	Total/NA	Solid	8015NM Prep	
890-1074-8	SB-15-6	Total/NA	Solid	8015NM Prep	
890-1074-9	SB-15-35	Total/NA	Solid	8015NM Prep	
890-1074-10	SB-15-40	Total/NA	Solid	8015NM Prep	
890-1074-11	SB-15-45	Total/NA	Solid	8015NM Prep	
890-1074-12	SB-16-2	Total/NA	Solid	8015NM Prep	
890-1074-13	SB-16-4	Total/NA	Solid	8015NM Prep	
890-1074-14	SB-16-10	Total/NA	Solid	8015NM Prep	
890-1074-15	SB-16-20	Total/NA	Solid	8015NM Prep	
890-1074-16	SB-14-2	Total/NA	Solid	8015NM Prep	
890-1074-17	SB-14-4	Total/NA	Solid	8015NM Prep	
890-1074-18	SB-14-25	Total/NA	Solid	8015NM Prep	
890-1074-19	SB-14-30	Total/NA	Solid	8015NM Prep	
890-1074-20	SB-14-35	Total/NA	Solid	8015NM Prep	
MB 880-6285/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6285/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6285/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1074-1 MS	SB-44-2	Total/NA	Solid	8015NM Prep	
890-1074-1 MSD	SB-44-2	Total/NA	Solid	8015NM Prep	

Prep Batch: 6286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-21	SB-43-2	Total/NA	Solid	8015NM Prep	
890-1074-22	SB-43-4	Total/NA	Solid	8015NM Prep	
890-1074-23	SB-43-25	Total/NA	Solid	8015NM Prep	
890-1074-24	SB-43-35	Total/NA	Solid	8015NM Prep	
890-1074-25	SB-43-40	Total/NA	Solid	8015NM Prep	
890-1074-26	SB-43-45	Total/NA	Solid	8015NM Prep	
890-1074-27	SB-12-2	Total/NA	Solid	8015NM Prep	
890-1074-28	SB-12-4	Total/NA	Solid	8015NM Prep	
890-1074-29	SB-12-20	Total/NA	Solid	8015NM Prep	
890-1074-30	SB-12-40	Total/NA	Solid	8015NM Prep	
890-1074-31	SB-12-45	Total/NA	Solid	8015NM Prep	
890-1074-32	SB-38-2	Total/NA	Solid	8015NM Prep	
890-1074-33	SB-38-4	Total/NA	Solid	8015NM Prep	
890-1074-34	SB-38-20	Total/NA	Solid	8015NM Prep	
890-1074-35	SB-38-40	Total/NA	Solid	8015NM Prep	
890-1074-36	SB-38-60	Total/NA	Solid	8015NM Prep	
890-1074-37	SB-38-65	Total/NA	Solid	8015NM Prep	
890-1074-38	SB-37-2	Total/NA	Solid	8015NM Prep	
890-1074-39	SB-37-4	Total/NA	Solid	8015NM Prep	
890-1074-40	SB-37-30	Total/NA	Solid	8015NM Prep	
MB 880-6286/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6286/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6286/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1074-21 MS	SB-43-2	Total/NA	Solid	8015NM Prep	
890-1074-21 MSD	SB-43-2	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC Semi VOA

Prep Batch: 6329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-49	SB-34-25	Total/NA	Solid	8015NM Prep	
MB 880-6329/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6329/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6329/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 6316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-11	SB-15-45	Soluble	Solid	DI Leach	
890-1074-12	SB-16-2	Soluble	Solid	DI Leach	
890-1074-13	SB-16-4	Soluble	Solid	DI Leach	
890-1074-14	SB-16-10	Soluble	Solid	DI Leach	
890-1074-15	SB-16-20	Soluble	Solid	DI Leach	
890-1074-16	SB-14-2	Soluble	Solid	DI Leach	
MB 880-6316/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6316/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6316/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1074-11 MS	SB-15-45	Soluble	Solid	DI Leach	
890-1074-11 MSD	SB-15-45	Soluble	Solid	DI Leach	

Leach Batch: 6317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-17	SB-14-4	Soluble	Solid	DI Leach	
890-1074-18	SB-14-25	Soluble	Solid	DI Leach	
890-1074-19	SB-14-30	Soluble	Solid	DI Leach	
890-1074-20	SB-14-35	Soluble	Solid	DI Leach	
890-1074-21	SB-43-2	Soluble	Solid	DI Leach	
890-1074-22	SB-43-4	Soluble	Solid	DI Leach	
890-1074-23	SB-43-25	Soluble	Solid	DI Leach	
890-1074-24	SB-43-35	Soluble	Solid	DI Leach	
890-1074-25	SB-43-40	Soluble	Solid	DI Leach	
890-1074-26	SB-43-45	Soluble	Solid	DI Leach	
890-1074-27	SB-12-2	Soluble	Solid	DI Leach	
890-1074-28	SB-12-4	Soluble	Solid	DI Leach	
890-1074-29	SB-12-20	Soluble	Solid	DI Leach	
890-1074-30	SB-12-40	Soluble	Solid	DI Leach	
890-1074-31	SB-12-45	Soluble	Solid	DI Leach	
890-1074-32	SB-38-2	Soluble	Solid	DI Leach	
890-1074-33	SB-38-4	Soluble	Solid	DI Leach	
890-1074-34	SB-38-20	Soluble	Solid	DI Leach	
890-1074-35	SB-38-40	Soluble	Solid	DI Leach	
890-1074-36	SB-38-60	Soluble	Solid	DI Leach	
MB 880-6317/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6317/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6317/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1074-17 MS	SB-14-4	Soluble	Solid	DI Leach	
890-1074-17 MSD	SB-14-4	Soluble	Solid	DI Leach	
890-1074-27 MS	SB-12-2	Soluble	Solid	DI Leach	
890-1074-27 MSD	SB-12-2	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

HPLC/IC

Leach Batch: 6319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-37	SB-38-65	Soluble	Solid	DI Leach	
890-1074-38	SB-37-2	Soluble	Solid	DI Leach	
890-1074-39	SB-37-4	Soluble	Solid	DI Leach	
890-1074-40	SB-37-30	Soluble	Solid	DI Leach	
890-1074-41	SB-35-4	Soluble	Solid	DI Leach	
890-1074-42	SB-35-25	Soluble	Solid	DI Leach	
890-1074-43	SB-35-40	Soluble	Solid	DI Leach	
890-1074-44	SB-35-45	Soluble	Solid	DI Leach	
890-1074-45	SB-34-2	Soluble	Solid	DI Leach	
890-1074-46	SB-34-6	Soluble	Solid	DI Leach	
890-1074-47	SB-34-4	Soluble	Solid	DI Leach	
890-1074-48	SB-34-15	Soluble	Solid	DI Leach	
890-1074-49	SB-34-25	Soluble	Solid	DI Leach	
MB 880-6319/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6319/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6319/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1074-37 MS	SB-38-65	Soluble	Solid	DI Leach	
890-1074-37 MSD	SB-38-65	Soluble	Solid	DI Leach	
890-1074-47 MS	SB-34-4	Soluble	Solid	DI Leach	
890-1074-47 MSD	SB-34-4	Soluble	Solid	DI Leach	

Leach Batch: 6320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-1	SB-44-2	Soluble	Solid	DI Leach	
890-1074-2	SB-44-4	Soluble	Solid	DI Leach	
890-1074-3	SB-44-8	Soluble	Solid	DI Leach	
890-1074-4	SB-44-25	Soluble	Solid	DI Leach	
890-1074-5	SB-44-30	Soluble	Solid	DI Leach	
890-1074-6	SB-15-2	Soluble	Solid	DI Leach	
890-1074-7	SB-15-4	Soluble	Solid	DI Leach	
890-1074-8	SB-15-6	Soluble	Solid	DI Leach	
890-1074-9	SB-15-35	Soluble	Solid	DI Leach	
890-1074-10	SB-15-40	Soluble	Solid	DI Leach	
MB 880-6320/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6320/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6320/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1074-5 MS	SB-44-30	Soluble	Solid	DI Leach	
890-1074-5 MSD	SB-44-30	Soluble	Solid	DI Leach	

Analysis Batch: 6391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-11	SB-15-45	Soluble	Solid	300.0	6316
890-1074-12	SB-16-2	Soluble	Solid	300.0	6316
890-1074-13	SB-16-4	Soluble	Solid	300.0	6316
890-1074-14	SB-16-10	Soluble	Solid	300.0	6316
890-1074-15	SB-16-20	Soluble	Solid	300.0	6316
890-1074-16	SB-14-2	Soluble	Solid	300.0	6316
MB 880-6316/1-A	Method Blank	Soluble	Solid	300.0	6316
LCS 880-6316/2-A	Lab Control Sample	Soluble	Solid	300.0	6316
LCSD 880-6316/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6316
890-1074-11 MS	SB-15-45	Soluble	Solid	300.0	6316

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 6391 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-11 MSD	SB-15-45	Soluble	Solid	300.0	6316

Analysis Batch: 6392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-17	SB-14-4	Soluble	Solid	300.0	6317
890-1074-18	SB-14-25	Soluble	Solid	300.0	6317
890-1074-19	SB-14-30	Soluble	Solid	300.0	6317
890-1074-20	SB-14-35	Soluble	Solid	300.0	6317
890-1074-21	SB-43-2	Soluble	Solid	300.0	6317
890-1074-22	SB-43-4	Soluble	Solid	300.0	6317
890-1074-23	SB-43-25	Soluble	Solid	300.0	6317
890-1074-24	SB-43-35	Soluble	Solid	300.0	6317
890-1074-25	SB-43-40	Soluble	Solid	300.0	6317
890-1074-26	SB-43-45	Soluble	Solid	300.0	6317
890-1074-27	SB-12-2	Soluble	Solid	300.0	6317
890-1074-28	SB-12-4	Soluble	Solid	300.0	6317
890-1074-29	SB-12-20	Soluble	Solid	300.0	6317
890-1074-30	SB-12-40	Soluble	Solid	300.0	6317
890-1074-31	SB-12-45	Soluble	Solid	300.0	6317
890-1074-32	SB-38-2	Soluble	Solid	300.0	6317
890-1074-33	SB-38-4	Soluble	Solid	300.0	6317
890-1074-34	SB-38-20	Soluble	Solid	300.0	6317
890-1074-35	SB-38-40	Soluble	Solid	300.0	6317
890-1074-36	SB-38-60	Soluble	Solid	300.0	6317
MB 880-6317/1-A	Method Blank	Soluble	Solid	300.0	6317
LCS 880-6317/2-A	Lab Control Sample	Soluble	Solid	300.0	6317
LCSD 880-6317/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6317
890-1074-17 MS	SB-14-4	Soluble	Solid	300.0	6317
890-1074-17 MSD	SB-14-4	Soluble	Solid	300.0	6317
890-1074-27 MS	SB-12-2	Soluble	Solid	300.0	6317
890-1074-27 MSD	SB-12-2	Soluble	Solid	300.0	6317

Analysis Batch: 6396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-37	SB-38-65	Soluble	Solid	300.0	6319
890-1074-38	SB-37-2	Soluble	Solid	300.0	6319
890-1074-39	SB-37-4	Soluble	Solid	300.0	6319
890-1074-40	SB-37-30	Soluble	Solid	300.0	6319
890-1074-41	SB-35-4	Soluble	Solid	300.0	6319
890-1074-42	SB-35-25	Soluble	Solid	300.0	6319
890-1074-43	SB-35-40	Soluble	Solid	300.0	6319
890-1074-44	SB-35-45	Soluble	Solid	300.0	6319
890-1074-45	SB-34-2	Soluble	Solid	300.0	6319
890-1074-46	SB-34-6	Soluble	Solid	300.0	6319
890-1074-47	SB-34-4	Soluble	Solid	300.0	6319
890-1074-48	SB-34-15	Soluble	Solid	300.0	6319
890-1074-49	SB-34-25	Soluble	Solid	300.0	6319
MB 880-6319/1-A	Method Blank	Soluble	Solid	300.0	6319
LCS 880-6319/2-A	Lab Control Sample	Soluble	Solid	300.0	6319
LCSD 880-6319/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6319
890-1074-37 MS	SB-38-65	Soluble	Solid	300.0	6319

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 6396 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-37 MSD	SB-38-65	Soluble	Solid	300.0	6319
890-1074-47 MS	SB-34-4	Soluble	Solid	300.0	6319
890-1074-47 MSD	SB-34-4	Soluble	Solid	300.0	6319

Analysis Batch: 6399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-1	SB-44-2	Soluble	Solid	300.0	6320
890-1074-2	SB-44-4	Soluble	Solid	300.0	6320
890-1074-3	SB-44-8	Soluble	Solid	300.0	6320
890-1074-4	SB-44-25	Soluble	Solid	300.0	6320
890-1074-5	SB-44-30	Soluble	Solid	300.0	6320
890-1074-6	SB-15-2	Soluble	Solid	300.0	6320
890-1074-7	SB-15-4	Soluble	Solid	300.0	6320
890-1074-8	SB-15-6	Soluble	Solid	300.0	6320
890-1074-9	SB-15-35	Soluble	Solid	300.0	6320
890-1074-10	SB-15-40	Soluble	Solid	300.0	6320
MB 880-6320/1-A	Method Blank	Soluble	Solid	300.0	6320
LCS 880-6320/2-A	Lab Control Sample	Soluble	Solid	300.0	6320
LCSD 880-6320/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6320
890-1074-5 MS	SB-44-30	Soluble	Solid	300.0	6320
890-1074-5 MSD	SB-44-30	Soluble	Solid	300.0	6320

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-44-2

Lab Sample ID: 890-1074-1

Date Collected: 08/06/21 09:00

Matrix: Solid

Date Received: 08/09/21 12:05

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	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 16:26	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 12:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 02:07	CH	XEN MID

Client Sample ID: SB-44-4

Lab Sample ID: 890-1074-2

Date Collected: 08/06/21 09:05

Matrix: Solid

Date Received: 08/09/21 12:05

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	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 18:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 13:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 02:13	CH	XEN MID

Client Sample ID: SB-44-8

Lab Sample ID: 890-1074-3

Date Collected: 08/06/21 09:15

Matrix: Solid

Date Received: 08/09/21 12:05

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	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 18:37	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 13:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			6399	08/12/21 02:18	CH	XEN MID

Client Sample ID: SB-44-25

Lab Sample ID: 890-1074-4

Date Collected: 08/06/21 09:40

Matrix: Solid

Date Received: 08/09/21 12:05

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	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 18:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 14:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 02:24	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-44-30

Lab Sample ID: 890-1074-5

Date Collected: 08/06/21 09:45

Matrix: Solid

Date Received: 08/09/21 12:05

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	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 19:18	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 02:30	CH	XEN MID

Client Sample ID: SB-15-2

Lab Sample ID: 890-1074-6

Date Collected: 08/06/21 09:55

Matrix: Solid

Date Received: 08/09/21 12:05

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	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 19:38	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 14:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 02:46	CH	XEN MID

Client Sample ID: SB-15-4

Lab Sample ID: 890-1074-7

Date Collected: 08/06/21 10:00

Matrix: Solid

Date Received: 08/09/21 12:05

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	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 19:59	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 02:52	CH	XEN MID

Client Sample ID: SB-15-6

Lab Sample ID: 890-1074-8

Date Collected: 08/06/21 10:20

Matrix: Solid

Date Received: 08/09/21 12:05

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	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 20:19	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 15:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		10			6399	08/12/21 03:09	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-15-35

Lab Sample ID: 890-1074-9

Date Collected: 08/06/21 11:20

Matrix: Solid

Date Received: 08/09/21 12:05

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	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 20:39	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 03:14	CH	XEN MID

Client Sample ID: SB-15-40

Lab Sample ID: 890-1074-10

Date Collected: 08/06/21 11:30

Matrix: Solid

Date Received: 08/09/21 12:05

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	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 21:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 16:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 03:20	CH	XEN MID

Client Sample ID: SB-15-45

Lab Sample ID: 890-1074-11

Date Collected: 08/06/21 11:50

Matrix: Solid

Date Received: 08/09/21 12:05

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	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 21:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6316	08/10/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			6391	08/11/21 10:30	CH	XEN MID

Client Sample ID: SB-16-2

Lab Sample ID: 890-1074-12

Date Collected: 08/06/21 12:05

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 00:58	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6316	08/10/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			6391	08/11/21 10:47	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-16-4

Lab Sample ID: 890-1074-13

Date Collected: 08/06/21 12:10

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 01:19	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6316	08/10/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			6391	08/11/21 10:53	CH	XEN MID

Client Sample ID: SB-16-10

Lab Sample ID: 890-1074-14

Date Collected: 08/06/21 13:45

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 01:39	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 18:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6316	08/10/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			6391	08/11/21 10:58	CH	XEN MID

Client Sample ID: SB-16-20

Lab Sample ID: 890-1074-15

Date Collected: 08/06/21 14:00

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 01:59	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 18:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6316	08/10/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			6391	08/11/21 11:04	CH	XEN MID

Client Sample ID: SB-14-2

Lab Sample ID: 890-1074-16

Date Collected: 08/06/21 14:05

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 02:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6316	08/10/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			6391	08/11/21 11:21	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-14-4

Lab Sample ID: 890-1074-17

Date Collected: 08/06/21 14:20

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 02:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 12:05	CH	XEN MID

Client Sample ID: SB-14-25

Lab Sample ID: 890-1074-18

Date Collected: 08/06/21 14:50

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 03:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 19:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		5			6392	08/11/21 12:22	CH	XEN MID

Client Sample ID: SB-14-30

Lab Sample ID: 890-1074-19

Date Collected: 08/06/21 14:55

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 03:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 19:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 12:27	CH	XEN MID

Client Sample ID: SB-14-35

Lab Sample ID: 890-1074-20

Date Collected: 08/06/21 15:00

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 03:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 20:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 12:33	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-43-2

Lab Sample ID: 890-1074-21

Date Collected: 08/06/21 15:15

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 04:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 12:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		10			6392	08/11/21 12:38	CH	XEN MID

Client Sample ID: SB-43-4

Lab Sample ID: 890-1074-22

Date Collected: 08/06/21 15:20

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 05:51	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 13:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		10			6392	08/11/21 12:55	CH	XEN MID

Client Sample ID: SB-43-25

Lab Sample ID: 890-1074-23

Date Collected: 08/06/21 15:50

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 06:12	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 13:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		5			6392	08/12/21 11:02	CH	XEN MID

Client Sample ID: SB-43-35

Lab Sample ID: 890-1074-24

Date Collected: 08/07/21 09:20

Matrix: Solid

Date Received: 08/09/21 12:05

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	6336	08/11/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6356	08/11/21 22:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 14:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		5			6392	08/11/21 13:05	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-43-40

Lab Sample ID: 890-1074-25

Date Collected: 08/07/21 09:30

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 06:52	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 13:11	CH	XEN MID

Client Sample ID: SB-43-45

Lab Sample ID: 890-1074-26

Date Collected: 08/07/21 10:30

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 07:13	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 14:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 13:16	CH	XEN MID

Client Sample ID: SB-12-2

Lab Sample ID: 890-1074-27

Date Collected: 08/07/21 10:40

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 07:33	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 13:22	CH	XEN MID

Client Sample ID: SB-12-4

Lab Sample ID: 890-1074-28

Date Collected: 08/07/21 10:45

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 07:54	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 15:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		10			6392	08/11/21 13:38	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-12-20

Lab Sample ID: 890-1074-29

Date Collected: 08/07/21 11:20

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 08:14	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		5			6392	08/11/21 13:44	CH	XEN MID

Client Sample ID: SB-12-40

Lab Sample ID: 890-1074-30

Date Collected: 08/07/21 12:00

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 08:58	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 16:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 14:00	CH	XEN MID

Client Sample ID: SB-12-45

Lab Sample ID: 890-1074-31

Date Collected: 08/07/21 12:00

Matrix: Solid

Date Received: 08/09/21 12:05

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	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 09:19	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 14:06	CH	XEN MID

Client Sample ID: SB-38-2

Lab Sample ID: 890-1074-32

Date Collected: 08/07/21 13:15

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 15:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 14:11	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-38-4

Lab Sample ID: 890-1074-33

Date Collected: 08/07/21 13:20

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 15:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 14:17	CH	XEN MID

Client Sample ID: SB-38-20

Lab Sample ID: 890-1074-34

Date Collected: 08/07/21 14:05

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 15:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 18:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		5			6392	08/11/21 14:22	CH	XEN MID

Client Sample ID: SB-38-40

Lab Sample ID: 890-1074-35

Date Collected: 08/07/21 14:25

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 16:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 18:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 14:28	CH	XEN MID

Client Sample ID: SB-38-60

Lab Sample ID: 890-1074-36

Date Collected: 08/07/21 15:30

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 16:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 14:33	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-38-65

Lab Sample ID: 890-1074-37

Date Collected: 08/07/21 15:50

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 17:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 18:44	CH	XEN MID

Client Sample ID: SB-37-2

Lab Sample ID: 890-1074-38

Date Collected: 08/07/21 16:10

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 18:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 19:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:01	CH	XEN MID

Client Sample ID: SB-37-4

Lab Sample ID: 890-1074-39

Date Collected: 08/07/21 16:25

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 18:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 19:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:07	CH	XEN MID

Client Sample ID: SB-37-30

Lab Sample ID: 890-1074-40

Date Collected: 08/07/21 17:10

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 18:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 20:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:12	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-35-4

Lab Sample ID: 890-1074-41

Date Collected: 08/08/21 12:25

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 19:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:18	CH	XEN MID

Client Sample ID: SB-35-25

Lab Sample ID: 890-1074-42

Date Collected: 08/08/21 13:40

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 19:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:35	CH	XEN MID

Client Sample ID: SB-35-40

Lab Sample ID: 890-1074-43

Date Collected: 08/08/21 16:05

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 19:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 17:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:40	CH	XEN MID

Client Sample ID: SB-35-45

Lab Sample ID: 890-1074-44

Date Collected: 08/08/21 16:20

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 20:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 18:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:46	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-34-2

Lab Sample ID: 890-1074-45

Date Collected: 08/08/21 16:30

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 20:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 18:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:51	CH	XEN MID

Client Sample ID: SB-34-6

Lab Sample ID: 890-1074-46

Date Collected: 08/08/21 16:50

Matrix: Solid

Date Received: 08/09/21 12:05

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	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 20:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:57	CH	XEN MID

Client Sample ID: SB-34-4

Lab Sample ID: 890-1074-47

Date Collected: 08/08/21 16:55

Matrix: Solid

Date Received: 08/09/21 12:05

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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 00:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 19:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:03	CH	XEN MID

Client Sample ID: SB-34-15

Lab Sample ID: 890-1074-48

Date Collected: 08/08/21 17:05

Matrix: Solid

Date Received: 08/09/21 12:05

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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 00:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 19:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:19	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-34-25
Date Collected: 08/08/21 17:15
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-49
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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 00:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6329	08/10/21 14:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6274	08/11/21 02:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:25	CH	XEN MID

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1074-1	SB-44-2	Solid	08/06/21 09:00	08/09/21 12:05
890-1074-2	SB-44-4	Solid	08/06/21 09:05	08/09/21 12:05
890-1074-3	SB-44-8	Solid	08/06/21 09:15	08/09/21 12:05
890-1074-4	SB-44-25	Solid	08/06/21 09:40	08/09/21 12:05
890-1074-5	SB-44-30	Solid	08/06/21 09:45	08/09/21 12:05
890-1074-6	SB-15-2	Solid	08/06/21 09:55	08/09/21 12:05
890-1074-7	SB-15-4	Solid	08/06/21 10:00	08/09/21 12:05
890-1074-8	SB-15-6	Solid	08/06/21 10:20	08/09/21 12:05
890-1074-9	SB-15-35	Solid	08/06/21 11:20	08/09/21 12:05
890-1074-10	SB-15-40	Solid	08/06/21 11:30	08/09/21 12:05
890-1074-11	SB-15-45	Solid	08/06/21 11:50	08/09/21 12:05
890-1074-12	SB-16-2	Solid	08/06/21 12:05	08/09/21 12:05
890-1074-13	SB-16-4	Solid	08/06/21 12:10	08/09/21 12:05
890-1074-14	SB-16-10	Solid	08/06/21 13:45	08/09/21 12:05
890-1074-15	SB-16-20	Solid	08/06/21 14:00	08/09/21 12:05
890-1074-16	SB-14-2	Solid	08/06/21 14:05	08/09/21 12:05
890-1074-17	SB-14-4	Solid	08/06/21 14:20	08/09/21 12:05
890-1074-18	SB-14-25	Solid	08/06/21 14:50	08/09/21 12:05
890-1074-19	SB-14-30	Solid	08/06/21 14:55	08/09/21 12:05
890-1074-20	SB-14-35	Solid	08/06/21 15:00	08/09/21 12:05
890-1074-21	SB-43-2	Solid	08/06/21 15:15	08/09/21 12:05
890-1074-22	SB-43-4	Solid	08/06/21 15:20	08/09/21 12:05
890-1074-23	SB-43-25	Solid	08/06/21 15:50	08/09/21 12:05
890-1074-24	SB-43-35	Solid	08/07/21 09:20	08/09/21 12:05
890-1074-25	SB-43-40	Solid	08/07/21 09:30	08/09/21 12:05
890-1074-26	SB-43-45	Solid	08/07/21 10:30	08/09/21 12:05
890-1074-27	SB-12-2	Solid	08/07/21 10:40	08/09/21 12:05
890-1074-28	SB-12-4	Solid	08/07/21 10:45	08/09/21 12:05
890-1074-29	SB-12-20	Solid	08/07/21 11:20	08/09/21 12:05
890-1074-30	SB-12-40	Solid	08/07/21 12:00	08/09/21 12:05
890-1074-31	SB-12-45	Solid	08/07/21 12:00	08/09/21 12:05
890-1074-32	SB-38-2	Solid	08/07/21 13:15	08/09/21 12:05
890-1074-33	SB-38-4	Solid	08/07/21 13:20	08/09/21 12:05
890-1074-34	SB-38-20	Solid	08/07/21 14:05	08/09/21 12:05
890-1074-35	SB-38-40	Solid	08/07/21 14:25	08/09/21 12:05
890-1074-36	SB-38-60	Solid	08/07/21 15:30	08/09/21 12:05
890-1074-37	SB-38-65	Solid	08/07/21 15:50	08/09/21 12:05
890-1074-38	SB-37-2	Solid	08/07/21 16:10	08/09/21 12:05
890-1074-39	SB-37-4	Solid	08/07/21 16:25	08/09/21 12:05
890-1074-40	SB-37-30	Solid	08/07/21 17:10	08/09/21 12:05
890-1074-41	SB-35-4	Solid	08/08/21 12:25	08/09/21 12:05
890-1074-42	SB-35-25	Solid	08/08/21 13:40	08/09/21 12:05
890-1074-43	SB-35-40	Solid	08/08/21 16:05	08/09/21 12:05
890-1074-44	SB-35-45	Solid	08/08/21 16:20	08/09/21 12:05
890-1074-45	SB-34-2	Solid	08/08/21 16:30	08/09/21 12:05
890-1074-46	SB-34-6	Solid	08/08/21 16:50	08/09/21 12:05
890-1074-47	SB-34-4	Solid	08/08/21 16:55	08/09/21 12:05
890-1074-48	SB-34-15	Solid	08/08/21 17:05	08/09/21 12:05
890-1074-49	SB-34-25	Solid	08/08/21 17:15	08/09/21 12:05



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 968-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 5

Project Manager:	Bucky Haskell	Bill to: (if different)	Jane Kennedy
Company Name:	GLD	Company Name:	ECG
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	432 280 7917	Email:	

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

Project Name:		Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number:		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location:		Due Date: 3-Day			
Sampler's Name:		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:	TE-MACH		
Cooler Custody Seals:	Yes No	Correction Factor:	-0.2		
Sample Custody Seals:	Yes No	Temperature Reading:	6.8		
Total Containers:		Corrected Temperature:	6.6		



890-1074 Chain of Custody

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	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Cont	# of Cont	Parameters	Sample Comments
-----------------------	--------	--------------	--------------	-------	------------	-----------	------------	-----------------

53-44-21	S	4-6-21	0900		4	1	Chloride 300	
53-44-41			0905				BTEX 8021	
53-44-81			0915				TPH 8015 KRP 600 DQD	
53-44-25			0940					
53-44-35			0945					
53-15-21			0955					
53-15-41			1000					
53-15-61			1020					
53-15-35			1120					
53-15-46			1130					

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 Matrix to be analyzed: TCEP / SCLP 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
		3/10/21 11:00 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: _____

www.xenco.com Page _____ of _____

Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

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

Project Name:	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	<input type="checkbox"/> Routine <input type="checkbox"/> Rush																		
Project Location:	Due Date:	TAT starts the day received by the lab, if received by 4:30pm																	
Sampler's Name:	PO #:	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														
SAMPLE RECEIPT		Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:													
Total Containers:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Corrected Temperature:																

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters												Sample Comments											
SB-15-45	S	8-6-21	11:50		G	1	Chloride 300																							
SB-16-2			12:05				BTEX 8021																							
SB-16-4			12:10				Pb 8015 MRD, BRD, DRD																							
SB-16-10			1:34																											
SB-16-20			1:40																											
SB-14-4			1:42																											
SB-14-25			1:45																											
SB-14-30			1:45																											
SB-14-23			1:50																											

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
 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
		8/9/21 11:08			



Environmental Testing

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

Chain of Custody

Work Order No:

www.xenco.com

Page 3 of 5

Project Manager:			Bill to: (if different)	
Company Name:			Company Name:	
Address:			Address:	
City, State ZIP:			City, State ZIP:	
Phone:		Email:		



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

Project Name:		Turn Around		ANALYSIS REQUEST										Preservative Codes				
Project Number:		<input type="checkbox"/> Routine	<input type="checkbox"/> Rush	Pass. Code											None, NO	DI Water, H ₂ O		
Project Location:		Due Date:													Cool, Cool	MeOH, Me		
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm													HCL, HC	HNO ₃ , HN		
PO #:															H ₂ SO ₄ , H ₂	NaOH, Na		
SAMPLE RECEIPT		Temp Blank:	Yes	No	Yes	No	Weight:	Yes	No								H ₃ PO ₄ , HP	
Samples Received intact:	Yes	No	Thermometer ID:	11151							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:	Perf							Zn Acetate+NaOH, Zn						
Total Containers:			Corrected Temperature:								NaOH+Ascorbic Acid, SABC							

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chl	BTE	TPH	Sample Comments
SB-43-2'	S	8-6-21	1515		6	1				
SB-43-4'			1520							
SB-43-15'			1550							
SB-43-35'		8-7-21	1620							
SB-43-40'			0930							
SB-43-45'			1030							
SB-10-2'			1040							
SB-12-4'			1045							
SB-12-20'			1120							
SB-12-40'			1200							

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 <td>Cr</td> <td>Co</td> <td>Cu</td> <td>Pb</td> <td>Mn</td> <td>Mo</td> <td>Ni</td> <td>Se</td> <td>Ag</td> <td>Ti</td> <td>U</td> <td></td> <td>Hg:</td> <td>1631 / 245.1</td> <td>7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	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
		3/9/21 11:00			

Printed Date: 08/24/2020 Rev: 2020



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 565-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 4 of 6

Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

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

Project Name:	Turn Around		Pres. Code	ANALYSIS REQUEST										
Project Number:	<input type="checkbox"/> Routine	<input type="checkbox"/> Rush												
Project Location:	Due Date:	TAT starts the day received by the lab, if received by 4:30pm												
Sample Name:														
PO #:														
SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No								
Samples Received Intact:	Yes	No	Thermometer:	Yes	No									
Cooler Custody Seals:	Yes	No	Correction Factor:											
Sample Custody Seals:	Yes	No	Temperature Reading:											
Total Containers:	Yes	No	Corrected Temperature:											

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chloride	BTEX	TPH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</
-----------------------	--------	--------------	--------------	-------	-----------	-----------	----------	------	-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

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



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 5 of 5

Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

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

Project Name:	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	<input type="checkbox"/> Routine <input type="checkbox"/> Rush			None: NO DI Water: H ₂ O
Project Location:	Due Date:			Cool: Cool MeOH: Me
Sampler's Name:	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: 5098			NaHSO ₄ : NABIS
Cooler Custody Seals: Yes No	Correction Factor: 1.154			Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals: Yes No	Temperature Reading: 20.88			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
SB-35-4'	S	8-8-21	1225		H	1	Chloride 300	
SB-35-25'			1340				BrEx 8021	
SB-35-46'			1605				TPH 8015	
SB-35-48'			1625				MRO, GPD, DRD	
SB-34-2'			1630					
SB-34-6'			1650					
SB-34-4'			1655					
SB-34-15'			1705					
SB-34-25'			1715					

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
		8/8/21 11:00			

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1074-1

SDG Number: 11220747

Login Number: 1074

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1074-1

SDG Number: 11220747

Login Number: 1074

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 08/10/21 11:12 AM

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1075-1
Laboratory Sample Delivery Group: 11220747
Client Project/Site: Flamenco #1

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

Attn: Becky Haskell

A handwritten signature in black ink, appearing to read "Debbie Simmons".

Authorized for release by:
8/13/2021 12:29:54 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: GHD Services Inc.
Project/Site: Flamenco #1

Laboratory Job ID: 890-1075-1
SDG: 11220747

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	17
Lab Chronicle	20
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Job ID: 890-1075-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1075-1

Receipt

The samples were received on 8/9/2021 12:53 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 6.6°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Client Sample ID: SB-37-45

Lab Sample ID: 890-1075-1

Date Collected: 08/07/21 17:25

Matrix: Solid

Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		08/10/21 09:24	08/11/21 01:16	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/10/21 09:24	08/11/21 01:16	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/10/21 09:24	08/11/21 01:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:24	08/11/21 01:16	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		08/10/21 09:24	08/11/21 01:16	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:24	08/11/21 01:16	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:24	08/11/21 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/10/21 09:24	08/11/21 01:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/10/21 09:24	08/11/21 01:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 21:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 21:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 21:24	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	08/10/21 14:43	08/10/21 21:24	1
o-Terphenyl	110		70 - 130	08/10/21 14:43	08/10/21 21:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	812		5.00	0.858	mg/Kg			08/11/21 20:42	1

Client Sample ID: SB-37-60

Lab Sample ID: 890-1075-2

Date Collected: 08/08/21 09:50

Matrix: Solid

Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:24	08/11/21 01:37	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 09:24	08/11/21 01:37	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/10/21 09:24	08/11/21 01:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 01:37	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/10/21 09:24	08/11/21 01:37	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 01:37	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/10/21 09:24	08/11/21 01:37	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/10/21 09:24	08/11/21 01:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 22:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Client Sample ID: SB-37-60

Lab Sample ID: 890-1075-2

Date Collected: 08/08/21 09:50

Matrix: Solid

Date Received: 08/09/21 12:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 22:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 22:27	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				08/10/21 14:43	08/10/21 22:27	1
o-Terphenyl	102		70 - 130				08/10/21 14:43	08/10/21 22:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	273		5.05	0.867	mg/Kg			08/11/21 20:48	1

Client Sample ID: SB-37-65

Lab Sample ID: 890-1075-3

Date Collected: 08/08/21 10:00

Matrix: Solid

Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				08/10/21 09:24	08/11/21 01:57	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/10/21 09:24	08/11/21 01:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 22:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 22:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 22:48	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				08/10/21 14:43	08/10/21 22:48	1
o-Terphenyl	109		70 - 130				08/10/21 14:43	08/10/21 22:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		5.05	0.867	mg/Kg			08/11/21 20:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Client Sample ID: SB-36-2

Lab Sample ID: 890-1075-4

Date Collected: 08/08/21 10:30

Matrix: Solid

Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/10/21 09:24	08/11/21 02:18	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/10/21 09:24	08/11/21 02:18	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/10/21 09:24	08/11/21 02:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:24	08/11/21 02:18	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/10/21 09:24	08/11/21 02:18	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:24	08/11/21 02:18	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:24	08/11/21 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/10/21 09:24	08/11/21 02:18	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/10/21 09:24	08/11/21 02:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:09	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	08/10/21 14:43	08/10/21 23:09	1
o-Terphenyl	130		70 - 130	08/10/21 14:43	08/10/21 23:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.3		4.98	0.855	mg/Kg			08/11/21 20:59	1

Client Sample ID: SB-36-4

Lab Sample ID: 890-1075-5

Date Collected: 08/08/21 10:35

Matrix: Solid

Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:24	08/11/21 02:38	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 09:24	08/11/21 02:38	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 09:24	08/11/21 02:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:24	08/11/21 02:38	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/10/21 09:24	08/11/21 02:38	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:24	08/11/21 02:38	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:24	08/11/21 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/10/21 09:24	08/11/21 02:38	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/10/21 09:24	08/11/21 02:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 23:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Client Sample ID: SB-36-4

Lab Sample ID: 890-1075-5

Date Collected: 08/08/21 10:35

Matrix: Solid

Date Received: 08/09/21 12:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 23:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 23:30	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 23:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/10/21 14:43	08/10/21 23:30	1
o-Terphenyl	116		70 - 130				08/10/21 14:43	08/10/21 23:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.3		5.00	0.858	mg/Kg			08/11/21 21:04	1

Client Sample ID: SB-36-15

Lab Sample ID: 890-1075-6

Date Collected: 08/08/21 10:55

Matrix: Solid

Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				08/10/21 09:24	08/11/21 02:58	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/10/21 09:24	08/11/21 02:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:51	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/10/21 14:43	08/10/21 23:51	1
o-Terphenyl	106		70 - 130				08/10/21 14:43	08/10/21 23:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2210		25.0	4.29	mg/Kg			08/11/21 21:10	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Client Sample ID: SB-36-50

Lab Sample ID: 890-1075-7

Date Collected: 08/08/21 12:00

Matrix: Solid

Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 09:24	08/11/21 03:19	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 09:24	08/11/21 03:19	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 09:24	08/11/21 03:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:24	08/11/21 03:19	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/10/21 09:24	08/11/21 03:19	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:24	08/11/21 03:19	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:24	08/11/21 03:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/10/21 09:24	08/11/21 03:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/10/21 09:24	08/11/21 03:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 00:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 00:12	1
Oil Range Organics (Over C28-C36)	19.2	J	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 00:12	1
Total TPH	19.2	J	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	08/10/21 14:43	08/11/21 00:12	1
o-Terphenyl	111		70 - 130	08/10/21 14:43	08/11/21 00:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2060		24.8	4.25	mg/Kg			08/11/21 21:16	5

Client Sample ID: SB-36-60

Lab Sample ID: 890-1075-8

Date Collected: 08/08/21 12:45

Matrix: Solid

Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:24	08/11/21 04:41	1
Toluene	0.000586	J	0.00200	0.000456	mg/Kg		08/10/21 09:24	08/11/21 04:41	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:24	08/11/21 04:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/11/21 04:41	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:24	08/11/21 04:41	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/11/21 04:41	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/11/21 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/10/21 09:24	08/11/21 04:41	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/10/21 09:24	08/11/21 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Client Sample ID: SB-36-60

Lab Sample ID: 890-1075-8

Date Collected: 08/08/21 12:45

Matrix: Solid

Date Received: 08/09/21 12:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:34	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				08/10/21 14:43	08/11/21 00:34	1
o-Terphenyl	109		70 - 130				08/10/21 14:43	08/11/21 00:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.2		5.00	0.858	mg/Kg			08/12/21 03:26	1

Client Sample ID: SB-36-65

Lab Sample ID: 890-1075-9

Date Collected: 08/08/21 13:05

Matrix: Solid

Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				08/10/21 09:24	08/11/21 05:01	1
1,4-Difluorobenzene (Surr)	94		70 - 130				08/10/21 09:24	08/11/21 05:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:55	1
Diesel Range Organics (Over C10-C28)	26.3	J	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:55	1
Total TPH	26.3	J	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				08/10/21 14:43	08/11/21 00:55	1
o-Terphenyl	126		70 - 130				08/10/21 14:43	08/11/21 00:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		25.0	4.28	mg/Kg			08/12/21 11:00	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Client Sample ID: SB-35-2

Lab Sample ID: 890-1075-10

Date Collected: 08/08/21 12:20

Matrix: Solid

Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/10/21 09:24	08/11/21 05:21	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/10/21 09:24	08/11/21 05:21	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/10/21 09:24	08/11/21 05:21	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/10/21 09:24	08/11/21 05:21	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/10/21 09:24	08/11/21 05:21	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/10/21 09:24	08/11/21 05:21	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/10/21 09:24	08/11/21 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/10/21 09:24	08/11/21 05:21	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/10/21 09:24	08/11/21 05:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 01:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 01:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 01:16	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	08/10/21 14:43	08/11/21 01:16	1
o-Terphenyl	112		70 - 130	08/10/21 14:43	08/11/21 01:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		4.97	0.853	mg/Kg			08/12/21 03:37	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

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)				
890-1075-1	SB-37-45	121	101				
890-1075-2	SB-37-60	124	98				
890-1075-3	SB-37-65	123	98				
890-1075-4	SB-36-2	118	95				
890-1075-5	SB-36-4	123	99				
890-1075-6	SB-36-15	126	98				
890-1075-7	SB-36-50	118	97				
890-1075-8	SB-36-60	118	90				
890-1075-9	SB-36-65	115	94				
890-1075-10	SB-35-2	123	94				
LCS 880-6288/1-A	Lab Control Sample	112	104				
LCSD 880-6288/2-A	Lab Control Sample Dup	106	104				
MB 880-6287/5-A	Method Blank	97	98				
MB 880-6288/5-A	Method Blank	135 S1+	97				
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)				
890-1075-1	SB-37-45	104	110				
890-1075-1 MS	SB-37-45	91	89				
890-1075-1 MSD	SB-37-45	92	89				
890-1075-2	SB-37-60	95	102				
890-1075-3	SB-37-65	102	109				
890-1075-4	SB-36-2	119	130				
890-1075-5	SB-36-4	107	116				
890-1075-6	SB-36-15	98	106				
890-1075-7	SB-36-50	103	111				
890-1075-8	SB-36-60	105	109				
890-1075-9	SB-36-65	120	126				
890-1075-10	SB-35-2	106	112				
LCS 880-6330/2-A	Lab Control Sample	107	104				
LCSD 880-6330/3-A	Lab Control Sample Dup	97	95				
MB 880-6330/1-A	Method Blank	101	105				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6287/5-A

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 13:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/10/21 09:18	08/10/21 13:01	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/10/21 09:18	08/10/21 13:01	1

Lab Sample ID: MB 880-6288/5-A

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/10/21 23:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	08/10/21 09:24	08/10/21 23:54	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/10/21 09:24	08/10/21 23:54	1

Lab Sample ID: LCS 880-6288/1-A

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08756		mg/Kg		88	70 - 130
Toluene	0.100	0.08601		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08731		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08985		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

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

Lab Sample ID: LCSD 880-6288/2-A

Matrix: Solid

Analysis Batch: 6292

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6288

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08313		mg/Kg		83	70 - 130	5	35
Toluene	0.100	0.07869		mg/Kg		79	70 - 130	9	35
Ethylbenzene	0.100	0.07898		mg/Kg		79	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1600		mg/Kg		80	70 - 130	11	35
o-Xylene	0.100	0.08117		mg/Kg		81	70 - 130	10	35

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

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

Lab Sample ID: MB 880-6330/1-A

Matrix: Solid

Analysis Batch: 6276

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 20:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 20:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 20:20	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 20:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	08/10/21 14:43	08/10/21 20:20	1
o-Terphenyl	105		70 - 130	08/10/21 14:43	08/10/21 20:20	1

Lab Sample ID: LCS 880-6330/2-A

Matrix: Solid

Analysis Batch: 6276

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1191		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1246		mg/Kg		125	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-6330/3-A

Matrix: Solid

Analysis Batch: 6276

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6330

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1043		mg/Kg		104	70 - 130	13	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

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

Lab Sample ID: LCSD 880-6330/3-A

Matrix: Solid

Analysis Batch: 6276

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6330

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	1129		mg/Kg		113	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	97		70 - 130						
o-Terphenyl	95		70 - 130						

Lab Sample ID: 890-1075-1 MS

Matrix: Solid

Analysis Batch: 6276

Client Sample ID: SB-37-45

Prep Type: Total/NA

Prep Batch: 6330

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	901.5		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	943.8		mg/Kg		95	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	91		70 - 130								
o-Terphenyl	89		70 - 130								

Lab Sample ID: 890-1075-1 MSD

Matrix: Solid

Analysis Batch: 6276

Client Sample ID: SB-37-45

Prep Type: Total/NA

Prep Batch: 6330

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	916.1		mg/Kg		92	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	960.6		mg/Kg		96	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	89		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6319/1-A

Matrix: Solid

Analysis Batch: 6396

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/11/21 18:27	1

Lab Sample ID: LCS 880-6319/2-A

Matrix: Solid

Analysis Batch: 6396

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	250	259.3		mg/Kg		104	90 - 110		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-6319/3-A

Matrix: Solid

Analysis Batch: 6396

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	259.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-6320/1-A

Matrix: Solid

Analysis Batch: 6399

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/12/21 00:54	1

Lab Sample ID: LCS 880-6320/2-A

Matrix: Solid

Analysis Batch: 6399

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	267.0		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-6320/3-A

Matrix: Solid

Analysis Batch: 6399

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	267.3		mg/Kg		107	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

GC VOA

Prep Batch: 6287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6287/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-1	SB-37-45	Total/NA	Solid	5035	
890-1075-2	SB-37-60	Total/NA	Solid	5035	
890-1075-3	SB-37-65	Total/NA	Solid	5035	
890-1075-4	SB-36-2	Total/NA	Solid	5035	
890-1075-5	SB-36-4	Total/NA	Solid	5035	
890-1075-6	SB-36-15	Total/NA	Solid	5035	
890-1075-7	SB-36-50	Total/NA	Solid	5035	
890-1075-8	SB-36-60	Total/NA	Solid	5035	
890-1075-9	SB-36-65	Total/NA	Solid	5035	
890-1075-10	SB-35-2	Total/NA	Solid	5035	
MB 880-6288/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6288/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6288/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 6292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-1	SB-37-45	Total/NA	Solid	8021B	6288
890-1075-2	SB-37-60	Total/NA	Solid	8021B	6288
890-1075-3	SB-37-65	Total/NA	Solid	8021B	6288
890-1075-4	SB-36-2	Total/NA	Solid	8021B	6288
890-1075-5	SB-36-4	Total/NA	Solid	8021B	6288
890-1075-6	SB-36-15	Total/NA	Solid	8021B	6288
890-1075-7	SB-36-50	Total/NA	Solid	8021B	6288
890-1075-8	SB-36-60	Total/NA	Solid	8021B	6288
890-1075-9	SB-36-65	Total/NA	Solid	8021B	6288
890-1075-10	SB-35-2	Total/NA	Solid	8021B	6288
MB 880-6287/5-A	Method Blank	Total/NA	Solid	8021B	6287
MB 880-6288/5-A	Method Blank	Total/NA	Solid	8021B	6288
LCS 880-6288/1-A	Lab Control Sample	Total/NA	Solid	8021B	6288
LCSD 880-6288/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6288

GC Semi VOA

Analysis Batch: 6276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-1	SB-37-45	Total/NA	Solid	8015B NM	6330
890-1075-2	SB-37-60	Total/NA	Solid	8015B NM	6330
890-1075-3	SB-37-65	Total/NA	Solid	8015B NM	6330
890-1075-4	SB-36-2	Total/NA	Solid	8015B NM	6330
890-1075-5	SB-36-4	Total/NA	Solid	8015B NM	6330
890-1075-6	SB-36-15	Total/NA	Solid	8015B NM	6330
890-1075-7	SB-36-50	Total/NA	Solid	8015B NM	6330
890-1075-8	SB-36-60	Total/NA	Solid	8015B NM	6330
890-1075-9	SB-36-65	Total/NA	Solid	8015B NM	6330
890-1075-10	SB-35-2	Total/NA	Solid	8015B NM	6330
MB 880-6330/1-A	Method Blank	Total/NA	Solid	8015B NM	6330
LCS 880-6330/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6330

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 6276 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-6330/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6330
890-1075-1 MS	SB-37-45	Total/NA	Solid	8015B NM	6330
890-1075-1 MSD	SB-37-45	Total/NA	Solid	8015B NM	6330

Prep Batch: 6330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-1	SB-37-45	Total/NA	Solid	8015NM Prep	
890-1075-2	SB-37-60	Total/NA	Solid	8015NM Prep	
890-1075-3	SB-37-65	Total/NA	Solid	8015NM Prep	
890-1075-4	SB-36-2	Total/NA	Solid	8015NM Prep	
890-1075-5	SB-36-4	Total/NA	Solid	8015NM Prep	
890-1075-6	SB-36-15	Total/NA	Solid	8015NM Prep	
890-1075-7	SB-36-50	Total/NA	Solid	8015NM Prep	
890-1075-8	SB-36-60	Total/NA	Solid	8015NM Prep	
890-1075-9	SB-36-65	Total/NA	Solid	8015NM Prep	
890-1075-10	SB-35-2	Total/NA	Solid	8015NM Prep	
MB 880-6330/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6330/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6330/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1075-1 MS	SB-37-45	Total/NA	Solid	8015NM Prep	
890-1075-1 MSD	SB-37-45	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 6319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-1	SB-37-45	Soluble	Solid	DI Leach	
890-1075-2	SB-37-60	Soluble	Solid	DI Leach	
890-1075-3	SB-37-65	Soluble	Solid	DI Leach	
890-1075-4	SB-36-2	Soluble	Solid	DI Leach	
890-1075-5	SB-36-4	Soluble	Solid	DI Leach	
890-1075-6	SB-36-15	Soluble	Solid	DI Leach	
890-1075-7	SB-36-50	Soluble	Solid	DI Leach	
MB 880-6319/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6319/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6319/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 6320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-8	SB-36-60	Soluble	Solid	DI Leach	
890-1075-9	SB-36-65	Soluble	Solid	DI Leach	
890-1075-10	SB-35-2	Soluble	Solid	DI Leach	
MB 880-6320/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6320/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6320/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 6396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-1	SB-37-45	Soluble	Solid	300.0	6319
890-1075-2	SB-37-60	Soluble	Solid	300.0	6319
890-1075-3	SB-37-65	Soluble	Solid	300.0	6319

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 6396 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-4	SB-36-2	Soluble	Solid	300.0	6319
890-1075-5	SB-36-4	Soluble	Solid	300.0	6319
890-1075-6	SB-36-15	Soluble	Solid	300.0	6319
890-1075-7	SB-36-50	Soluble	Solid	300.0	6319
MB 880-6319/1-A	Method Blank	Soluble	Solid	300.0	6319
LCS 880-6319/2-A	Lab Control Sample	Soluble	Solid	300.0	6319
LCSD 880-6319/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6319

Analysis Batch: 6399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-8	SB-36-60	Soluble	Solid	300.0	6320
890-1075-9	SB-36-65	Soluble	Solid	300.0	6320
890-1075-10	SB-35-2	Soluble	Solid	300.0	6320
MB 880-6320/1-A	Method Blank	Soluble	Solid	300.0	6320
LCS 880-6320/2-A	Lab Control Sample	Soluble	Solid	300.0	6320
LCSD 880-6320/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6320

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Client Sample ID: SB-37-45

Lab Sample ID: 890-1075-1

Date Collected: 08/07/21 17:25

Matrix: Solid

Date Received: 08/09/21 12:53

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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 01:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 21:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:42	CH	XEN MID

Client Sample ID: SB-37-60

Lab Sample ID: 890-1075-2

Date Collected: 08/08/21 09:50

Matrix: Solid

Date Received: 08/09/21 12:53

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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 01:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 22:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:48	CH	XEN MID

Client Sample ID: SB-37-65

Lab Sample ID: 890-1075-3

Date Collected: 08/08/21 10:00

Matrix: Solid

Date Received: 08/09/21 12:53

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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 01:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 22:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:53	CH	XEN MID

Client Sample ID: SB-36-2

Lab Sample ID: 890-1075-4

Date Collected: 08/08/21 10:30

Matrix: Solid

Date Received: 08/09/21 12:53

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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 02:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 23:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:59	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Client Sample ID: SB-36-4

Lab Sample ID: 890-1075-5

Date Collected: 08/08/21 10:35

Matrix: Solid

Date Received: 08/09/21 12:53

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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 02:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 23:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 21:04	CH	XEN MID

Client Sample ID: SB-36-15

Lab Sample ID: 890-1075-6

Date Collected: 08/08/21 10:55

Matrix: Solid

Date Received: 08/09/21 12:53

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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 02:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 23:51	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		5			6396	08/11/21 21:10	CH	XEN MID

Client Sample ID: SB-36-50

Lab Sample ID: 890-1075-7

Date Collected: 08/08/21 12:00

Matrix: Solid

Date Received: 08/09/21 12:53

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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 03:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/11/21 00:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		5			6396	08/11/21 21:16	CH	XEN MID

Client Sample ID: SB-36-60

Lab Sample ID: 890-1075-8

Date Collected: 08/08/21 12:45

Matrix: Solid

Date Received: 08/09/21 12:53

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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 04:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/11/21 00:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 03:26	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Client Sample ID: SB-36-65

Lab Sample ID: 890-1075-9

Date Collected: 08/08/21 13:05

Matrix: Solid

Date Received: 08/09/21 12:53

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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 05:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/11/21 00:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			6399	08/12/21 11:00	CH	XEN MID

Client Sample ID: SB-35-2

Lab Sample ID: 890-1075-10

Date Collected: 08/08/21 12:20

Matrix: Solid

Date Received: 08/09/21 12:53

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	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 05:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/11/21 01:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 03:37	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1075-1	SB-37-45	Solid	08/07/21 17:25	08/09/21 12:53
890-1075-2	SB-37-60	Solid	08/08/21 09:50	08/09/21 12:53
890-1075-3	SB-37-65	Solid	08/08/21 10:00	08/09/21 12:53
890-1075-4	SB-36-2	Solid	08/08/21 10:30	08/09/21 12:53
890-1075-5	SB-36-4	Solid	08/08/21 10:35	08/09/21 12:53
890-1075-6	SB-36-15	Solid	08/08/21 10:55	08/09/21 12:53
890-1075-7	SB-36-50	Solid	08/08/21 12:00	08/09/21 12:53
890-1075-8	SB-36-60	Solid	08/08/21 12:45	08/09/21 12:53
890-1075-9	SB-36-65	Solid	08/08/21 13:05	08/09/21 12:53
890-1075-10	SB-35-2	Solid	08/08/21 12:20	08/09/21 12:53



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) 988-3139

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	Becky Haskell	Bill to: (if different)	James Kennedy
Company Name:	GHTD	Company Name:	EOG
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

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

Project Name:	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location:	Due Date: 3 Day			
Sample's Name:	TAT starts the day received by the lab, if received by 4:30pm			
PO #:				
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID: 77MM007		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor: -0.2		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading: 1.0		
Total Containers:	Corrected Temperature:	6.6		



890-1075 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont	Parameters	Sample Comments
SB-37-40'	S	8-7-21	1725		6	1	Chloride 300	
SB-37-60'		8-8-21	0950				BTEX 8021	
SB-37-65'		8-8-21	1000				TPH 8015 MRD, BRO, DRO	
SB-38-20'		8-8-21	1030					
SB-38-40'			1035					
SB-38-45'			1055					
SB-38-50'			1200					
SB-38-60'			1245					
SB-38-65'			1305					
SB-38-70'			1220					

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

Notes: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, the 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
		8-9-21 1253			

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1075-1

SDG Number: 11220747

Login Number: 1075

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1075-1

SDG Number: 11220747

Login Number: 1075

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 08/10/21 11:11 AM

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1100-1
Laboratory Sample Delivery Group: 11220747
Client Project/Site: Flamenco #1
Revision: 1

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

Attn: Becky Haskell

Authorized for release by:
8/18/2021 12:14:14 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: GHD Services Inc.
Project/Site: Flamenco #1

Laboratory Job ID: 890-1100-1
SDG: 11220747

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Client Sample Results	7
Surrogate Summary	64
QC Sample Results	69
QC Association Summary	90
Lab Chronicle	106
Certification Summary	128
Method Summary	129
Sample Summary	130
Chain of Custody	132
Receipt Checklists	144

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Qualifiers

GC 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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Eurofins Xenco, Carlsbad

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Glossary (Continued)

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

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

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Job ID: 890-1100-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

**Job Narrative
890-1100-1**

Comments

No additional comments.

Receipt

The samples were received on 8/12/2021 1:46 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0° C.

Revision

Report revised (Rev1) to correct sample ID on sample 880-1100-10 to match the COC.....SB-31-25.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SB-29-15 (890-1100-36). The container labels lists SB-29-8-10-21 16:30, while the COC lists SB-15 8-10-21 1625. The lab assumed these were the same sample since all others matched COC. Lab logged according to COC ID.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-27A-4 (890-1100-72). 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: SB-24-25 (890-1100-31), SB-24-30 (890-1100-32), SB-29-2 (890-1100-33), SB-29-4 (890-1100-34), SB-29-10 (890-1100-35), SB-29-15 (890-1100-36), SB-29-25 (890-1100-37), SB-22-2 (890-1100-38), SB-22-4 (890-1100-39) and SB-22-15 (890-1100-40). 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: SB-22-30 (890-1100-41), SB-22-45 (890-1100-42), SB-19-2 (890-1100-44), SB-19-4 (890-1100-45), SB-19-20 (890-1100-46), SB-21C-4 (890-1100-82), SB-21C-6 (890-1100-83), SB-21C-15 (890-1100-84) and SB-21C-20 (890-1100-85). 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: SB-31-4 (890-1100-8). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-26-2 (890-1100-17). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-40A-25 (890-1100-70). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6494 and analytical batch 880-6495 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015B NM: The continuing calibration verification (CCV) associated with batch 880-6580 recovered above the upper control limit for Diesel Range Organics (Over C10-C28) The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-6580/84).

Method 8015B NM: Surrogate compounds were inadvertently omitted during the extraction process for the following samples: (CCV 880-6591/27) and (CCV 880-6591/3). This was an analyst prep error.

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Job ID: 890-1100-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

Method 8015B NM: The method blank for preparation batch 880-6589 and analytical batch 880-6591 contained <AffectedAnalytes> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: SB-27A-20 (890-1100-75), SB-21B-2 (890-1100-76), SB-21B-4 (890-1100-77) and SB-21B-6 (890-1100-78). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: SB-21B-20 (890-1100-80). 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

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6531 and analytical batch 880-6622 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-33-2

Lab Sample ID: 890-1100-1

Date Collected: 08/08/21 17:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000474	J *- *1	0.00199	0.000383	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
Total BTEX	<0.00398	U *- *1	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				08/13/21 10:30	08/13/21 23:48	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/13/21 10:30	08/13/21 23:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 22:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 22:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 22:26	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				08/14/21 09:48	08/14/21 22:26	1
o-Terphenyl	87		70 - 130				08/14/21 09:48	08/14/21 22:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.2		4.98	0.855	mg/Kg			08/14/21 09:11	1

Client Sample ID: SB-33-4

Lab Sample ID: 890-1100-2

Date Collected: 08/08/21 17:25

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *- *1	0.00198	0.000381	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
m-Xylene & p-Xylene	0.00101	J	0.00396	0.00100	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
o-Xylene	0.000838	J	0.00198	0.000341	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
Xylenes, Total	0.00185	J	0.00396	0.00100	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
Total BTEX	0.00185	J *- *1	0.00396	0.00100	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/13/21 10:30	08/14/21 00:09	1
1,4-Difluorobenzene (Surr)	104		70 - 130				08/13/21 10:30	08/14/21 00:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-33-4

Lab Sample ID: 890-1100-2

Date Collected: 08/08/21 17:25

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/14/21 23:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/14/21 23:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/14/21 23:28	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/14/21 23:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/14/21 09:48	08/14/21 23:28	1
o-Terphenyl	86		70 - 130	08/14/21 09:48	08/14/21 23:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.4		4.95	0.850	mg/Kg	-		08/14/21 09:17	1

Client Sample ID: SB-33-20

Lab Sample ID: 890-1100-3

Date Collected: 08/08/21 17:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *- *1	0.00198	0.000381	mg/Kg	-	08/13/21 10:30	08/14/21 00:30	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg	-	08/13/21 10:30	08/14/21 00:30	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg	-	08/13/21 10:30	08/14/21 00:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg	-	08/13/21 10:30	08/14/21 00:30	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg	-	08/13/21 10:30	08/14/21 00:30	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg	-	08/13/21 10:30	08/14/21 00:30	1
Total BTEX	<0.00396	U *- *1	0.00396	0.00100	mg/Kg	-	08/13/21 10:30	08/14/21 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/13/21 10:30	08/14/21 00:30	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/13/21 10:30	08/14/21 00:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/14/21 23:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/14/21 23:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/14/21 23:49	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/14/21 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	08/14/21 09:48	08/14/21 23:49	1
o-Terphenyl	94		70 - 130	08/14/21 09:48	08/14/21 23:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2440		25.0	4.29	mg/Kg	-		08/16/21 17:48	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-33-55

Lab Sample ID: 890-1100-4

Date Collected: 08/09/21 11:30

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	0.000385	mg/Kg		08/13/21 10:30	08/14/21 00:51	1
Toluene	0.000459	J	0.00200	0.000456	mg/Kg		08/13/21 10:30	08/14/21 00:51	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 10:30	08/14/21 00:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 00:51	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 10:30	08/14/21 00:51	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 00:51	1
Total BTEX	<0.00400	U *- *1	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/13/21 10:30	08/14/21 00:51	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/13/21 10:30	08/14/21 00:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 00:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 00:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 00:10	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	08/14/21 09:48	08/15/21 00:10	1
o-Terphenyl	87		70 - 130	08/14/21 09:48	08/15/21 00:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	895		4.98	0.855	mg/Kg			08/16/21 18:05	1

Client Sample ID: SB-33-60

Lab Sample ID: 890-1100-5

Date Collected: 08/09/21 12:00

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 60

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	0.000383	mg/Kg		08/13/21 10:30	08/14/21 01:11	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 10:30	08/14/21 01:11	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 10:30	08/14/21 01:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:11	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 10:30	08/14/21 01:11	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:11	1
Total BTEX	<0.00398	U *- *1	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/13/21 10:30	08/14/21 01:11	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/13/21 10:30	08/14/21 01:11	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-33-60

Lab Sample ID: 890-1100-5

Date Collected: 08/09/21 12:00

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 60

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/15/21 00:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/15/21 00:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/15/21 00:30	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/15/21 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	08/14/21 09:48	08/15/21 00:30	1
o-Terphenyl	84		70 - 130	08/14/21 09:48	08/15/21 00:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	346		5.04	0.865	mg/Kg	-		08/16/21 18:11	1

Client Sample ID: SB-33-65

Lab Sample ID: 890-1100-6

Date Collected: 08/09/21 12:15

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 65

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	0.000384	mg/Kg	-	08/13/21 10:30	08/14/21 01:32	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg	-	08/13/21 10:30	08/14/21 01:32	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg	-	08/13/21 10:30	08/14/21 01:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg	-	08/13/21 10:30	08/14/21 01:32	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg	-	08/13/21 10:30	08/14/21 01:32	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg	-	08/13/21 10:30	08/14/21 01:32	1
Total BTEX	<0.00399	U *- *1	0.00399	0.00101	mg/Kg	-	08/13/21 10:30	08/14/21 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/13/21 10:30	08/14/21 01:32	1
1,4-Difluorobenzene (Surr)	74		70 - 130	08/13/21 10:30	08/14/21 01:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/16/21 15:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/16/21 15:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/16/21 15:42	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/16/21 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	08/14/21 09:48	08/16/21 15:42	1
o-Terphenyl	105		70 - 130	08/14/21 09:48	08/16/21 15:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	548		4.99	0.857	mg/Kg	-		08/16/21 18:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-31-2

Lab Sample ID: 890-1100-7

Date Collected: 08/09/21 13:55

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000397	J *- *1	0.00199	0.000383	mg/Kg		08/13/21 10:30	08/14/21 01:53	1
Toluene	0.00135	J	0.00199	0.000454	mg/Kg		08/13/21 10:30	08/14/21 01:53	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 10:30	08/14/21 01:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:53	1
o-Xylene	0.00104	J	0.00199	0.000343	mg/Kg		08/13/21 10:30	08/14/21 01:53	1
Xylenes, Total	0.00104	J	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:53	1
Total BTEX	0.00279	J *- *1	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/13/21 10:30	08/14/21 01:53	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/13/21 10:30	08/14/21 01:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 01:12	1
Diesel Range Organics (Over C10-C28)	15.5	J	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 01:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 01:12	1
Total TPH	15.5	J	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	08/14/21 09:48	08/15/21 01:12	1
o-Terphenyl	85		70 - 130	08/14/21 09:48	08/15/21 01:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		5.00	0.858	mg/Kg			08/16/21 18:33	1

Client Sample ID: SB-31-4

Lab Sample ID: 890-1100-8

Date Collected: 08/09/21 14:00

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	0.000385	mg/Kg		08/13/21 10:30	08/14/21 02:14	1
Toluene	0.0392		0.00200	0.000456	mg/Kg		08/13/21 10:30	08/14/21 02:14	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 10:30	08/14/21 02:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 02:14	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 10:30	08/14/21 02:14	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 02:14	1
Total BTEX	0.0392	*- *1	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	777	S1+	70 - 130	08/13/21 10:30	08/14/21 02:14	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/13/21 10:30	08/14/21 02:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-31-4

Lab Sample ID: 890-1100-8

Date Collected: 08/09/21 14:00

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 01:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 01:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 01:32	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	08/14/21 09:48	08/15/21 01:32	1
o-Terphenyl	87		70 - 130	08/14/21 09:48	08/15/21 01:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.2		4.95	0.850	mg/Kg	-		08/16/21 18:39	1

Client Sample ID: SB-31-15

Lab Sample ID: 890-1100-9

Date Collected: 08/09/21 14:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202	0.000389	mg/Kg	-	08/13/21 10:30	08/14/21 02:35	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg	-	08/13/21 10:30	08/14/21 02:35	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg	-	08/13/21 10:30	08/14/21 02:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/13/21 10:30	08/14/21 02:35	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg	-	08/13/21 10:30	08/14/21 02:35	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/13/21 10:30	08/14/21 02:35	1
Total BTEX	<0.00404	U *- *1	0.00404	0.00102	mg/Kg	-	08/13/21 10:30	08/14/21 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	08/13/21 10:30	08/14/21 02:35	1
1,4-Difluorobenzene (Surr)	125		70 - 130	08/13/21 10:30	08/14/21 02:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 01:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 01:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 01:53	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	08/14/21 09:48	08/15/21 01:53	1
o-Terphenyl	92		70 - 130	08/14/21 09:48	08/15/21 01:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5640		49.7	8.53	mg/Kg	-		08/16/21 18:44	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-31-25

Lab Sample ID: 890-1100-10

Date Collected: 08/09/21 14:30

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	0.000383	mg/Kg		08/13/21 10:30	08/14/21 02:55	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 10:30	08/14/21 02:55	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 10:30	08/14/21 02:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/14/21 02:55	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/13/21 10:30	08/14/21 02:55	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/14/21 02:55	1
Total BTEX	<0.00398	U *- *1	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/14/21 02:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/13/21 10:30	08/14/21 02:55	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/13/21 10:30	08/14/21 02:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 02:14	1
Diesel Range Organics (Over C10-C28)	15.1	J	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 02:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 02:14	1
Total TPH	15.1	J	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	08/14/21 09:48	08/15/21 02:14	1
o-Terphenyl	97		70 - 130	08/14/21 09:48	08/15/21 02:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	286		4.96	0.851	mg/Kg			08/16/21 18:50	1

Client Sample ID: SB-31-30

Lab Sample ID: 890-1100-11

Date Collected: 08/09/21 14:35

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00177	J *- *1	0.00201	0.000387	mg/Kg		08/13/21 10:30	08/14/21 04:21	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/13/21 10:30	08/14/21 04:21	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/13/21 10:30	08/14/21 04:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 10:30	08/14/21 04:21	1
o-Xylene	0.00117	J	0.00201	0.000345	mg/Kg		08/13/21 10:30	08/14/21 04:21	1
Xylenes, Total	0.00117	J	0.00402	0.00101	mg/Kg		08/13/21 10:30	08/14/21 04:21	1
Total BTEX	0.00294	J *- *1	0.00402	0.00101	mg/Kg		08/13/21 10:30	08/14/21 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/13/21 10:30	08/14/21 04:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/13/21 10:30	08/14/21 04:21	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-31-30

Lab Sample ID: 890-1100-11

Date Collected: 08/09/21 14:35

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 02:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 02:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 02:55	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 02:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	08/14/21 09:48	08/15/21 02:55	1
o-Terphenyl	95		70 - 130	08/14/21 09:48	08/15/21 02:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	402		5.05	0.867	mg/Kg	-		08/16/21 18:56	1

Client Sample ID: SB-30-2

Lab Sample ID: 890-1100-12

Date Collected: 08/09/21 14:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00141	J *- *1	0.00202	0.000388	mg/Kg	-	08/13/21 10:30	08/14/21 04:41	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg	-	08/13/21 10:30	08/14/21 04:41	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg	-	08/13/21 10:30	08/14/21 04:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg	-	08/13/21 10:30	08/14/21 04:41	1
o-Xylene	0.000669	J	0.00202	0.000347	mg/Kg	-	08/13/21 10:30	08/14/21 04:41	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg	-	08/13/21 10:30	08/14/21 04:41	1
Total BTEX	0.00208	J *- *1	0.00403	0.00102	mg/Kg	-	08/13/21 10:30	08/14/21 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/13/21 10:30	08/14/21 04:41	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/13/21 10:30	08/14/21 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 03:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 03:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 03:16	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	08/14/21 09:48	08/15/21 03:16	1
o-Terphenyl	83		70 - 130	08/14/21 09:48	08/15/21 03:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.0		5.01	0.860	mg/Kg	-		08/16/21 19:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-30-4

Lab Sample ID: 890-1100-13

Date Collected: 08/09/21 14:55

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	0.000384	mg/Kg		08/13/21 10:30	08/14/21 05:02	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 10:30	08/14/21 05:02	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 10:30	08/14/21 05:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:02	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 10:30	08/14/21 05:02	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:02	1
Total BTEX	<0.00399	U *- *1	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/13/21 10:30	08/14/21 05:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/13/21 10:30	08/14/21 05:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:36	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	08/14/21 09:48	08/15/21 03:36	1
o-Terphenyl	88		70 - 130	08/14/21 09:48	08/15/21 03:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.9		4.95	0.850	mg/Kg			08/16/21 19:46	1

Client Sample ID: SB-30-8

Lab Sample ID: 890-1100-14

Date Collected: 08/09/21 15:05

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00178	J *- *1	0.00199	0.000383	mg/Kg		08/13/21 10:30	08/14/21 05:23	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 10:30	08/14/21 05:23	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 10:30	08/14/21 05:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:23	1
o-Xylene	0.00146	J	0.00199	0.000343	mg/Kg		08/13/21 10:30	08/14/21 05:23	1
Xylenes, Total	0.00146	J	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:23	1
Total BTEX	0.00324	J *- *1	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/13/21 10:30	08/14/21 05:23	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/13/21 10:30	08/14/21 05:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-30-8

Lab Sample ID: 890-1100-14

Date Collected: 08/09/21 15:05

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 03:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 03:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 03:57	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/14/21 09:48	08/15/21 03:57	1
o-Terphenyl	101		70 - 130	08/14/21 09:48	08/15/21 03:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2560		25.2	4.33	mg/Kg	-		08/16/21 20:03	5

Client Sample ID: SB-30-25

Lab Sample ID: 890-1100-15

Date Collected: 08/09/21 15:25

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	0.000385	mg/Kg	-	08/13/21 10:30	08/14/21 05:43	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg	-	08/13/21 10:30	08/14/21 05:43	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg	-	08/13/21 10:30	08/14/21 05:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg	-	08/13/21 10:30	08/14/21 05:43	1
o-Xylene	0.000389	J	0.00200	0.000344	mg/Kg	-	08/13/21 10:30	08/14/21 05:43	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg	-	08/13/21 10:30	08/14/21 05:43	1
Total BTEX	<0.00400	U *- *1	0.00400	0.00101	mg/Kg	-	08/13/21 10:30	08/14/21 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/13/21 10:30	08/14/21 05:43	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/13/21 10:30	08/14/21 05:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/15/21 04:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/15/21 04:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/15/21 04:17	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/15/21 04:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	08/14/21 09:48	08/15/21 04:17	1
o-Terphenyl	87		70 - 130	08/14/21 09:48	08/15/21 04:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	453		4.97	0.853	mg/Kg	-		08/16/21 20:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-30-30

Lab Sample ID: 890-1100-16

Date Collected: 08/09/21 15:30

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	0.000383	mg/Kg		08/13/21 10:30	08/14/21 06:04	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 10:30	08/14/21 06:04	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 10:30	08/14/21 06:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/14/21 06:04	1
o-Xylene	0.000624	J	0.00199	0.000342	mg/Kg		08/13/21 10:30	08/14/21 06:04	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/14/21 06:04	1
Total BTEX	<0.00398	U *- *1	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/14/21 06:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/13/21 10:30	08/14/21 06:04	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/13/21 10:30	08/14/21 06:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 04:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 04:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 04:38	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 04:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	08/14/21 09:48	08/15/21 04:38	1
o-Terphenyl	89		70 - 130	08/14/21 09:48	08/15/21 04:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	354		4.99	0.857	mg/Kg			08/16/21 20:14	1

Client Sample ID: SB-26-2

Lab Sample ID: 890-1100-17

Date Collected: 08/10/21 11:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00158	J *- *1	0.00200	0.000384	mg/Kg		08/13/21 10:30	08/14/21 06:25	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 10:30	08/14/21 06:25	1
Ethylbenzene	0.000594	J	0.00200	0.000564	mg/Kg		08/13/21 10:30	08/14/21 06:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 06:25	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 10:30	08/14/21 06:25	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 06:25	1
Total BTEX	0.00217	J *- *1	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 06:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	08/13/21 10:30	08/14/21 06:25	1
1,4-Difluorobenzene (Surr)	125		70 - 130	08/13/21 10:30	08/14/21 06:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-26-2

Lab Sample ID: 890-1100-17

Date Collected: 08/10/21 11:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 04:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 04:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 04:59	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/14/21 09:48	08/15/21 04:59	1
o-Terphenyl	85		70 - 130	08/14/21 09:48	08/15/21 04:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		5.00	0.858	mg/Kg	-		08/16/21 20:20	1

Client Sample ID: SB-26-4

Lab Sample ID: 890-1100-18

Date Collected: 08/10/21 12:00

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	0.000387	mg/Kg	-	08/13/21 10:30	08/14/21 06:45	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg	-	08/13/21 10:30	08/14/21 06:45	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg	-	08/13/21 10:30	08/14/21 06:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg	-	08/13/21 10:30	08/14/21 06:45	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg	-	08/13/21 10:30	08/14/21 06:45	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg	-	08/13/21 10:30	08/14/21 06:45	1
Total BTEX	<0.00402	U *- *1	0.00402	0.00101	mg/Kg	-	08/13/21 10:30	08/14/21 06:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/13/21 10:30	08/14/21 06:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/13/21 10:30	08/14/21 06:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/15/21 05:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/15/21 05:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/15/21 05:20	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 09:48	08/15/21 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	08/14/21 09:48	08/15/21 05:20	1
o-Terphenyl	87		70 - 130	08/14/21 09:48	08/15/21 05:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		4.98	0.855	mg/Kg	-		08/16/21 20:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-26-15

Lab Sample ID: 890-1100-19

Date Collected: 08/10/21 12:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000784	J *- *1	0.00200	0.000384	mg/Kg		08/13/21 10:30	08/14/21 07:06	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 10:30	08/14/21 07:06	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 10:30	08/14/21 07:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 07:06	1
o-Xylene	0.000398	J	0.00200	0.000343	mg/Kg		08/13/21 10:30	08/14/21 07:06	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 07:06	1
Total BTEX	0.00118	J *- *1	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 07:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/13/21 10:30	08/14/21 07:06	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/13/21 10:30	08/14/21 07:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 05:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 05:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 05:40	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 05:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	08/14/21 09:48	08/15/21 05:40	1
o-Terphenyl	87		70 - 130	08/14/21 09:48	08/15/21 05:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1920		24.8	4.25	mg/Kg			08/16/21 20:42	5

Client Sample ID: SB-26-25

Lab Sample ID: 890-1100-20

Date Collected: 08/10/21 12:35

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	0.000386	mg/Kg		08/13/21 10:30	08/14/21 07:27	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		08/13/21 10:30	08/14/21 07:27	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/13/21 10:30	08/14/21 07:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 10:30	08/14/21 07:27	1
o-Xylene	0.000362	J	0.00200	0.000345	mg/Kg		08/13/21 10:30	08/14/21 07:27	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 10:30	08/14/21 07:27	1
Total BTEX	<0.00401	U *- *1	0.00401	0.00101	mg/Kg		08/13/21 10:30	08/14/21 07:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/13/21 10:30	08/14/21 07:27	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/13/21 10:30	08/14/21 07:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-26-25

Lab Sample ID: 890-1100-20

Date Collected: 08/10/21 12:35

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 06:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 06:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 06:01	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 09:48	08/15/21 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	08/14/21 09:48	08/15/21 06:01	1
o-Terphenyl	87		70 - 130	08/14/21 09:48	08/15/21 06:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	529		5.02	0.862	mg/Kg	-		08/16/21 20:48	1

Client Sample ID: SB-26-30

Lab Sample ID: 890-1100-21

Date Collected: 08/10/21 12:45

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg	-	08/13/21 09:31	08/14/21 06:01	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg	-	08/13/21 09:31	08/14/21 06:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg	-	08/13/21 09:31	08/14/21 06:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg	-	08/13/21 09:31	08/14/21 06:01	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg	-	08/13/21 09:31	08/14/21 06:01	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg	-	08/13/21 09:31	08/14/21 06:01	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg	-	08/13/21 09:31	08/14/21 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/13/21 09:31	08/14/21 06:01	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/13/21 09:31	08/14/21 06:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 12:52	1
Diesel Range Organics (Over C10-C28)	15.1	J	50.0	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 12:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 12:52	1
Total TPH	15.1	J	50.0	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	08/14/21 11:51	08/15/21 12:52	1
o-Terphenyl	116		70 - 130	08/14/21 11:51	08/15/21 12:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		4.98	0.855	mg/Kg	-		08/16/21 20:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-25-2

Lab Sample ID: 890-1100-22

Date Collected: 08/10/21 13:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 09:31	08/14/21 06:22	1
Toluene	0.00106	J	0.00199	0.000454	mg/Kg		08/13/21 09:31	08/14/21 06:22	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 09:31	08/14/21 06:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 06:22	1
o-Xylene	0.000468	J	0.00199	0.000343	mg/Kg		08/13/21 09:31	08/14/21 06:22	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 06:22	1
Total BTEX	0.00153	J	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 06:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/13/21 09:31	08/14/21 06:22	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/13/21 09:31	08/14/21 06:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 13:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 13:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 13:54	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/14/21 11:51	08/15/21 13:54	1
o-Terphenyl	101		70 - 130	08/14/21 11:51	08/15/21 13:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.6		5.01	0.860	mg/Kg			08/16/21 20:59	1

Client Sample ID: SB-25-4

Lab Sample ID: 890-1100-23

Date Collected: 08/10/21 13:55

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/13/21 09:31	08/14/21 06:42	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/13/21 09:31	08/14/21 06:42	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/13/21 09:31	08/14/21 06:42	1
m-Xylene & p-Xylene	0.00112	J	0.00404	0.00102	mg/Kg		08/13/21 09:31	08/14/21 06:42	1
o-Xylene	0.000510	J	0.00202	0.000347	mg/Kg		08/13/21 09:31	08/14/21 06:42	1
Xylenes, Total	0.00163	J	0.00404	0.00102	mg/Kg		08/13/21 09:31	08/14/21 06:42	1
Total BTEX	0.00163	J	0.00404	0.00102	mg/Kg		08/13/21 09:31	08/14/21 06:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	08/13/21 09:31	08/14/21 06:42	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/13/21 09:31	08/14/21 06:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-25-4

Lab Sample ID: 890-1100-23

Date Collected: 08/10/21 13:55

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 14:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 14:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 14:15	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	08/14/21 11:51	08/15/21 14:15	1
o-Terphenyl	103		70 - 130	08/14/21 11:51	08/15/21 14:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.6		4.95	0.850	mg/Kg	-		08/16/21 21:05	1

Client Sample ID: SB-25-15

Lab Sample ID: 890-1100-24

Date Collected: 08/10/21 14:10

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg	-	08/13/21 09:31	08/14/21 07:03	1
Toluene	0.00109	J	0.00200	0.000457	mg/Kg	-	08/13/21 09:31	08/14/21 07:03	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg	-	08/13/21 09:31	08/14/21 07:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg	-	08/13/21 09:31	08/14/21 07:03	1
o-Xylene	0.000538	J	0.00200	0.000345	mg/Kg	-	08/13/21 09:31	08/14/21 07:03	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg	-	08/13/21 09:31	08/14/21 07:03	1
Total BTEX	0.00163	J	0.00401	0.00101	mg/Kg	-	08/13/21 09:31	08/14/21 07:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/13/21 09:31	08/14/21 07:03	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/13/21 09:31	08/14/21 07:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 14:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 14:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 14:36	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	08/14/21 11:51	08/15/21 14:36	1
o-Terphenyl	114		70 - 130	08/14/21 11:51	08/15/21 14:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		5.04	0.865	mg/Kg	-		08/16/21 21:21	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-25-30

Lab Sample ID: 890-1100-25

Date Collected: 08/10/21 14:25

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		08/13/21 09:31	08/14/21 07:23	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		08/13/21 09:31	08/14/21 07:23	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/13/21 09:31	08/14/21 07:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 09:31	08/14/21 07:23	1
o-Xylene	0.000401	J	0.00200	0.000345	mg/Kg		08/13/21 09:31	08/14/21 07:23	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 09:31	08/14/21 07:23	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 09:31	08/14/21 07:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/13/21 09:31	08/14/21 07:23	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/13/21 09:31	08/14/21 07:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 14:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 14:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 14:57	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/14/21 11:51	08/15/21 14:57	1
o-Terphenyl	105		70 - 130	08/14/21 11:51	08/15/21 14:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2330		25.0	4.28	mg/Kg			08/16/21 21:27	5

Client Sample ID: SB-25-40

Lab Sample ID: 890-1100-26

Date Collected: 08/10/21 14:35

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 40

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000393	J	0.00202	0.000388	mg/Kg		08/13/21 09:31	08/14/21 07:44	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/13/21 09:31	08/14/21 07:44	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/13/21 09:31	08/14/21 07:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 07:44	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 09:31	08/14/21 07:44	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 07:44	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 07:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/13/21 09:31	08/14/21 07:44	1
1,4-Difluorobenzene (Surr)	112		70 - 130	08/13/21 09:31	08/14/21 07:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-25-40

Lab Sample ID: 890-1100-26

Date Collected: 08/10/21 14:35

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 15:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 15:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 15:17	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/14/21 11:51	08/15/21 15:17	1
o-Terphenyl	102		70 - 130	08/14/21 11:51	08/15/21 15:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.3		5.00	0.858	mg/Kg	-		08/16/21 21:44	1

Client Sample ID: SB-25-45

Lab Sample ID: 890-1100-27

Date Collected: 08/10/21 14:55

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg	-	08/13/21 09:31	08/14/21 08:04	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg	-	08/13/21 09:31	08/14/21 08:04	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg	-	08/13/21 09:31	08/14/21 08:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg	-	08/13/21 09:31	08/14/21 08:04	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg	-	08/13/21 09:31	08/14/21 08:04	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg	-	08/13/21 09:31	08/14/21 08:04	1
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg	-	08/13/21 09:31	08/14/21 08:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/13/21 09:31	08/14/21 08:04	1
1,4-Difluorobenzene (Surr)	106		70 - 130	08/13/21 09:31	08/14/21 08:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 15:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 15:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 15:38	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	08/14/21 11:51	08/15/21 15:38	1
o-Terphenyl	102		70 - 130	08/14/21 11:51	08/15/21 15:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.7		5.00	0.858	mg/Kg	-		08/16/21 21:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-24-2

Lab Sample ID: 890-1100-28

Date Collected: 08/10/21 15:05

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000449	J	0.00199	0.000383	mg/Kg		08/13/21 09:31	08/14/21 08:24	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 09:31	08/14/21 08:24	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 09:31	08/14/21 08:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 08:24	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 09:31	08/14/21 08:24	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 08:24	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/13/21 09:31	08/14/21 08:24	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/13/21 09:31	08/14/21 08:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 15:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 15:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 15:59	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/14/21 11:51	08/15/21 15:59	1
o-Terphenyl	109		70 - 130	08/14/21 11:51	08/15/21 15:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.6		5.00	0.858	mg/Kg			08/16/21 21:55	1

Client Sample ID: SB-24-4

Lab Sample ID: 890-1100-29

Date Collected: 08/10/21 15:10

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/13/21 09:31	08/14/21 08:45	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 09:31	08/14/21 08:45	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 09:31	08/14/21 08:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 09:31	08/14/21 08:45	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 09:31	08/14/21 08:45	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 09:31	08/14/21 08:45	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 09:31	08/14/21 08:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/13/21 09:31	08/14/21 08:45	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/13/21 09:31	08/14/21 08:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-24-4

Lab Sample ID: 890-1100-29

Date Collected: 08/10/21 15:10

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 16:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 16:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 16:20	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	08/14/21 11:51	08/15/21 16:20	1
o-Terphenyl	99		70 - 130	08/14/21 11:51	08/15/21 16:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.8		4.97	0.853	mg/Kg	-		08/16/21 22:01	1

Client Sample ID: SB-24-15

Lab Sample ID: 890-1100-30

Date Collected: 08/10/21 15:30

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00446		0.00201	0.000387	mg/Kg	-	08/13/21 09:31	08/14/21 09:05	1
Toluene	0.0205		0.00201	0.000459	mg/Kg	-	08/13/21 09:31	08/14/21 09:05	1
Ethylbenzene	0.00303		0.00201	0.000568	mg/Kg	-	08/13/21 09:31	08/14/21 09:05	1
m-Xylene & p-Xylene	0.0273		0.00402	0.00102	mg/Kg	-	08/13/21 09:31	08/14/21 09:05	1
o-Xylene	0.0215		0.00201	0.000346	mg/Kg	-	08/13/21 09:31	08/14/21 09:05	1
Xylenes, Total	0.0488		0.00402	0.00102	mg/Kg	-	08/13/21 09:31	08/14/21 09:05	1
Total BTEX	0.0768		0.00402	0.00102	mg/Kg	-	08/13/21 09:31	08/14/21 09:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	533	S1+	70 - 130	08/13/21 09:31	08/14/21 09:05	1
1,4-Difluorobenzene (Surr)	27	S1-	70 - 130	08/13/21 09:31	08/14/21 09:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 16:41	1
Diesel Range Organics (Over C10-C28)	15.1	J	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 16:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 16:41	1
Total TPH	15.1	J	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	08/14/21 11:51	08/15/21 16:41	1
o-Terphenyl	113		70 - 130	08/14/21 11:51	08/15/21 16:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1810		24.8	4.26	mg/Kg	-		08/16/21 22:06	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-24-25

Lab Sample ID: 890-1100-31

Date Collected: 08/10/21 15:40

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 09:31	08/14/21 10:55	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 09:31	08/14/21 10:55	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 09:31	08/14/21 10:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 09:31	08/14/21 10:55	1
o-Xylene	0.000457	J	0.00199	0.000342	mg/Kg		08/13/21 09:31	08/14/21 10:55	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 09:31	08/14/21 10:55	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 09:31	08/14/21 10:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/13/21 09:31	08/14/21 10:55	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/13/21 09:31	08/14/21 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:23	1
Oil Range Organics (Over C28-C36)	19.7	J	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:23	1
Total TPH	19.7	J	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/14/21 11:51	08/15/21 17:23	1
o-Terphenyl	96		70 - 130	08/14/21 11:51	08/15/21 17:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		5.04	0.865	mg/Kg			08/16/21 22:12	1

Client Sample ID: SB-24-30

Lab Sample ID: 890-1100-32

Date Collected: 08/10/21 15:45

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/13/21 09:31	08/14/21 11:15	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/13/21 09:31	08/14/21 11:15	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/13/21 09:31	08/14/21 11:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:15	1
o-Xylene	0.000371	J	0.00202	0.000347	mg/Kg		08/13/21 09:31	08/14/21 11:15	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:15	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/13/21 09:31	08/14/21 11:15	1
1,4-Difluorobenzene (Surr)	117		70 - 130	08/13/21 09:31	08/14/21 11:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-24-30

Lab Sample ID: 890-1100-32

Date Collected: 08/10/21 15:45

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:44	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/14/21 11:51	08/15/21 17:44	1
o-Terphenyl	99		70 - 130	08/14/21 11:51	08/15/21 17:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.0		4.98	0.855	mg/Kg			08/16/21 22:17	1

Client Sample ID: SB-29-2

Lab Sample ID: 890-1100-33

Date Collected: 08/10/21 16:00

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/13/21 09:31	08/14/21 11:36	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/13/21 09:31	08/14/21 11:36	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/13/21 09:31	08/14/21 11:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:36	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 09:31	08/14/21 11:36	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:36	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/13/21 09:31	08/14/21 11:36	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/13/21 09:31	08/14/21 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:05	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/14/21 11:51	08/15/21 18:05	1
o-Terphenyl	99		70 - 130	08/14/21 11:51	08/15/21 18:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.66		5.05	0.867	mg/Kg			08/13/21 21:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-29-4

Lab Sample ID: 890-1100-34

Date Collected: 08/10/21 16:05

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/13/21 09:31	08/14/21 11:56	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/13/21 09:31	08/14/21 11:56	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/13/21 09:31	08/14/21 11:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:56	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 09:31	08/14/21 11:56	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:56	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/13/21 09:31	08/14/21 11:56	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/13/21 09:31	08/14/21 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:27	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	08/14/21 11:51	08/15/21 18:27	1
o-Terphenyl	99		70 - 130	08/14/21 11:51	08/15/21 18:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.50		4.98	0.855	mg/Kg			08/13/21 21:10	1

Client Sample ID: SB-29-10

Lab Sample ID: 890-1100-35

Date Collected: 08/10/21 16:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 10

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/13/21 09:31	08/14/21 12:16	1
Toluene	0.000634	J	0.00202	0.000460	mg/Kg		08/13/21 09:31	08/14/21 12:16	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/13/21 09:31	08/14/21 12:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 12:16	1
o-Xylene	0.000456	J	0.00202	0.000347	mg/Kg		08/13/21 09:31	08/14/21 12:16	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 12:16	1
Total BTEX	0.00109	J	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/13/21 09:31	08/14/21 12:16	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/13/21 09:31	08/14/21 12:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-29-10

Lab Sample ID: 890-1100-35

Date Collected: 08/10/21 16:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 18:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 18:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 18:49	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	08/14/21 11:51	08/15/21 18:49	1
o-Terphenyl	97		70 - 130	08/14/21 11:51	08/15/21 18:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630	F1	5.05	0.867	mg/Kg	-		08/13/21 21:15	1

Client Sample ID: SB-29-15

Lab Sample ID: 890-1100-36

Date Collected: 08/10/21 16:25

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00110	J	0.00200	0.000384	mg/Kg	-	08/13/21 09:31	08/14/21 12:37	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg	-	08/13/21 09:31	08/14/21 12:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg	-	08/13/21 09:31	08/14/21 12:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg	-	08/13/21 09:31	08/14/21 12:37	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg	-	08/13/21 09:31	08/14/21 12:37	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg	-	08/13/21 09:31	08/14/21 12:37	1
Total BTEX	0.00110	J	0.00399	0.00101	mg/Kg	-	08/13/21 09:31	08/14/21 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/13/21 09:31	08/14/21 12:37	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/13/21 09:31	08/14/21 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 19:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 19:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 19:10	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	08/14/21 11:51	08/15/21 19:10	1
o-Terphenyl	106		70 - 130	08/14/21 11:51	08/15/21 19:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		4.98	0.855	mg/Kg	-		08/13/21 21:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-29-25

Lab Sample ID: 890-1100-37

Date Collected: 08/10/21 16:35

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/13/21 09:31	08/14/21 12:57	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/13/21 09:31	08/14/21 12:57	1
Ethylbenzene	0.00123	J	0.00201	0.000567	mg/Kg		08/13/21 09:31	08/14/21 12:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 09:31	08/14/21 12:57	1
o-Xylene	0.000437	J	0.00201	0.000345	mg/Kg		08/13/21 09:31	08/14/21 12:57	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 09:31	08/14/21 12:57	1
Total BTEX	0.00167	J	0.00402	0.00101	mg/Kg		08/13/21 09:31	08/14/21 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/13/21 09:31	08/14/21 12:57	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/13/21 09:31	08/14/21 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 19:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 19:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 19:32	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	08/14/21 11:51	08/15/21 19:32	1
o-Terphenyl	93		70 - 130	08/14/21 11:51	08/15/21 19:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	211		4.95	0.850	mg/Kg			08/13/21 21:34	1

Client Sample ID: SB-22-2

Lab Sample ID: 890-1100-38

Date Collected: 08/11/21 08:45

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000529	J	0.00199	0.000383	mg/Kg		08/13/21 09:31	08/14/21 13:18	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 09:31	08/14/21 13:18	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 09:31	08/14/21 13:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 13:18	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 09:31	08/14/21 13:18	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 13:18	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	08/13/21 09:31	08/14/21 13:18	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/13/21 09:31	08/14/21 13:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-22-2

Lab Sample ID: 890-1100-38

Date Collected: 08/11/21 08:45

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 19:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 19:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 19:54	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 11:51	08/15/21 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/14/21 11:51	08/15/21 19:54	1
o-Terphenyl	104		70 - 130	08/14/21 11:51	08/15/21 19:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	323		5.00	0.858	mg/Kg	-		08/13/21 21:49	1

Client Sample ID: SB-22-4

Lab Sample ID: 890-1100-39

Date Collected: 08/11/21 08:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg	-	08/13/21 09:31	08/14/21 13:38	1
Toluene	0.000463	J	0.00198	0.000451	mg/Kg	-	08/13/21 09:31	08/14/21 13:38	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg	-	08/13/21 09:31	08/14/21 13:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg	-	08/13/21 09:31	08/14/21 13:38	1
o-Xylene	0.000516	J	0.00198	0.000341	mg/Kg	-	08/13/21 09:31	08/14/21 13:38	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg	-	08/13/21 09:31	08/14/21 13:38	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg	-	08/13/21 09:31	08/14/21 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/13/21 09:31	08/14/21 13:38	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/13/21 09:31	08/14/21 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 20:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 20:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 20:15	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 11:51	08/15/21 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/14/21 11:51	08/15/21 20:15	1
o-Terphenyl	96		70 - 130	08/14/21 11:51	08/15/21 20:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	590		5.00	0.858	mg/Kg	-		08/13/21 21:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-22-15

Lab Sample ID: 890-1100-40

Date Collected: 08/11/21 09:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 09:31	08/14/21 13:59	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 09:31	08/14/21 13:59	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 09:31	08/14/21 13:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 13:59	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 09:31	08/14/21 13:59	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 13:59	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/13/21 09:31	08/14/21 13:59	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/13/21 09:31	08/14/21 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 20:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 20:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 20:37	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/14/21 11:51	08/15/21 20:37	1
o-Terphenyl	107		70 - 130	08/14/21 11:51	08/15/21 20:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3830		25.2	4.33	mg/Kg			08/13/21 21:59	5

Client Sample ID: SB-22-30

Lab Sample ID: 890-1100-41

Date Collected: 08/11/21 11:40

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 10:50	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 08:34	08/14/21 10:50	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 08:34	08/14/21 10:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 10:50	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/13/21 08:34	08/14/21 10:50	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 10:50	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 10:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/13/21 08:34	08/14/21 10:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/13/21 08:34	08/14/21 10:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-22-30

Lab Sample ID: 890-1100-41

Date Collected: 08/11/21 11:40

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 13:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 13:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 13:54	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	08/14/21 12:06	08/15/21 13:54	1
o-Terphenyl	106		70 - 130	08/14/21 12:06	08/15/21 13:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1820		24.9	4.27	mg/Kg	-		08/13/21 22:04	5

Client Sample ID: SB-22-45

Lab Sample ID: 890-1100-42

Date Collected: 08/11/21 12:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg	-	08/13/21 08:34	08/14/21 11:11	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg	-	08/13/21 08:34	08/14/21 11:11	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg	-	08/13/21 08:34	08/14/21 11:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg	-	08/13/21 08:34	08/14/21 11:11	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg	-	08/13/21 08:34	08/14/21 11:11	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg	-	08/13/21 08:34	08/14/21 11:11	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg	-	08/13/21 08:34	08/14/21 11:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	08/13/21 08:34	08/14/21 11:11	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/13/21 08:34	08/14/21 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 12:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 12:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 12:52	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/14/21 12:06	08/15/21 12:52	1
o-Terphenyl	112		70 - 130	08/14/21 12:06	08/15/21 12:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		4.97	0.853	mg/Kg	-		08/13/21 22:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-22-50

Lab Sample ID: 890-1100-43

Date Collected: 08/11/21 12:35

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 11:31	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:34	08/14/21 11:31	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:34	08/14/21 11:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:31	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 08:34	08/14/21 11:31	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:31	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/13/21 08:34	08/14/21 11:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/13/21 08:34	08/14/21 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 14:15	1
Diesel Range Organics (Over C10-C28)	16.8	J	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 14:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 14:15	1
Total TPH	16.8	J	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	08/14/21 12:06	08/15/21 14:15	1
o-Terphenyl	94		70 - 130	08/14/21 12:06	08/15/21 14:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.6		4.98	0.855	mg/Kg			08/14/21 02:33	1

Client Sample ID: SB-19-2

Lab Sample ID: 890-1100-44

Date Collected: 08/11/21 12:45

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:34	08/14/21 11:52	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:34	08/14/21 11:52	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:34	08/14/21 11:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:52	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:34	08/14/21 11:52	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:52	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/13/21 08:34	08/14/21 11:52	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/13/21 08:34	08/14/21 11:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-19-2

Lab Sample ID: 890-1100-44

Date Collected: 08/11/21 12:45

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 14:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 14:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 14:36	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	08/14/21 12:06	08/15/21 14:36	1
o-Terphenyl	99		70 - 130	08/14/21 12:06	08/15/21 14:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		5.00	0.858	mg/Kg	-		08/14/21 02:39	1

Client Sample ID: SB-19-4

Lab Sample ID: 890-1100-45

Date Collected: 08/11/21 12:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg	-	08/13/21 08:34	08/14/21 12:12	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg	-	08/13/21 08:34	08/14/21 12:12	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg	-	08/13/21 08:34	08/14/21 12:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/13/21 08:34	08/14/21 12:12	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg	-	08/13/21 08:34	08/14/21 12:12	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/13/21 08:34	08/14/21 12:12	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/13/21 08:34	08/14/21 12:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/13/21 08:34	08/14/21 12:12	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/13/21 08:34	08/14/21 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:06	08/15/21 14:57	1
Diesel Range Organics (Over C10-C28)	16.3	J	49.8	14.9	mg/Kg	-	08/14/21 12:06	08/15/21 14:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:06	08/15/21 14:57	1
Total TPH	16.3	J	49.8	14.9	mg/Kg	-	08/14/21 12:06	08/15/21 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	08/14/21 12:06	08/15/21 14:57	1
o-Terphenyl	115		70 - 130	08/14/21 12:06	08/15/21 14:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		5.00	0.858	mg/Kg	-		08/14/21 02:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-19-20

Lab Sample ID: 890-1100-46

Date Collected: 08/11/21 13:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/13/21 08:34	08/14/21 12:33	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 08:34	08/14/21 12:33	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 08:34	08/14/21 12:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:34	08/14/21 12:33	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 08:34	08/14/21 12:33	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:34	08/14/21 12:33	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:34	08/14/21 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/13/21 08:34	08/14/21 12:33	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/13/21 08:34	08/14/21 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:17	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/14/21 12:06	08/15/21 15:17	1
o-Terphenyl	113		70 - 130	08/14/21 12:06	08/15/21 15:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		4.99	0.857	mg/Kg			08/16/21 23:02	1

Client Sample ID: SB-19-45

Lab Sample ID: 890-1100-47

Date Collected: 08/11/21 14:05

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/13/21 08:34	08/14/21 12:53	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/13/21 08:34	08/14/21 12:53	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/13/21 08:34	08/14/21 12:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 08:34	08/14/21 12:53	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 08:34	08/14/21 12:53	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 08:34	08/14/21 12:53	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 08:34	08/14/21 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/13/21 08:34	08/14/21 12:53	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/13/21 08:34	08/14/21 12:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-19-45

Lab Sample ID: 890-1100-47

Date Collected: 08/11/21 14:05

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 15:38	1
Diesel Range Organics (Over C10-C28)	20.2	J	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 15:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 15:38	1
Total TPH	20.2	J	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/14/21 12:06	08/15/21 15:38	1
o-Terphenyl	107		70 - 130	08/14/21 12:06	08/15/21 15:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		5.05	0.867	mg/Kg			08/16/21 23:19	1

Client Sample ID: SB-19-50

Lab Sample ID: 890-1100-48

Date Collected: 08/11/21 14:15

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:34	08/14/21 13:13	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:34	08/14/21 13:13	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:34	08/14/21 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 13:13	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:34	08/14/21 13:13	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 13:13	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/13/21 08:34	08/14/21 13:13	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/13/21 08:34	08/14/21 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:59	1
Diesel Range Organics (Over C10-C28)	18.5	J	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:59	1
Total TPH	18.5	J	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/14/21 12:06	08/15/21 15:59	1
o-Terphenyl	94		70 - 130	08/14/21 12:06	08/15/21 15:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.7		4.98	0.855	mg/Kg			08/16/21 23:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-18-2

Lab Sample ID: 890-1100-49

Date Collected: 08/11/21 14:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 13:34	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 08:34	08/14/21 13:34	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 08:34	08/14/21 13:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 13:34	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/13/21 08:34	08/14/21 13:34	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 13:34	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/13/21 08:34	08/14/21 13:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/13/21 08:34	08/14/21 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 16:20	1
Diesel Range Organics (Over C10-C28)	18.0	J	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 16:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 16:20	1
Total TPH	18.0	J	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/14/21 12:06	08/15/21 16:20	1
o-Terphenyl	93		70 - 130	08/14/21 12:06	08/15/21 16:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.9		4.95	0.850	mg/Kg			08/16/21 23:30	1

Client Sample ID: SB-18-4

Lab Sample ID: 890-1100-50

Date Collected: 08/11/21 14:25

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 13:54	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:34	08/14/21 13:54	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:34	08/14/21 13:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 13:54	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 08:34	08/14/21 13:54	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 13:54	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/13/21 08:34	08/14/21 13:54	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/13/21 08:34	08/14/21 13:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-18-4

Lab Sample ID: 890-1100-50

Date Collected: 08/11/21 14:25

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 16:41	1
Diesel Range Organics (Over C10-C28)	20.3	J	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 16:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 16:41	1
Total TPH	20.3	J	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/14/21 12:06	08/15/21 16:41	1
o-Terphenyl	108		70 - 130	08/14/21 12:06	08/15/21 16:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.9		5.04	0.865	mg/Kg			08/16/21 23:36	1

Client Sample ID: SB-18-30

Lab Sample ID: 890-1100-51

Date Collected: 08/11/21 15:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 15:16	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:34	08/14/21 15:16	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:34	08/14/21 15:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 15:16	1
o-Xylene	0.000349	J	0.00199	0.000343	mg/Kg		08/13/21 08:34	08/14/21 15:16	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 15:16	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/13/21 08:34	08/14/21 15:16	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/13/21 08:34	08/14/21 15:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:23	1
Diesel Range Organics (Over C10-C28)	18.6	J	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:23	1
Total TPH	18.6	J	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	08/14/21 12:06	08/15/21 17:23	1
o-Terphenyl	96		70 - 130	08/14/21 12:06	08/15/21 17:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7270		49.8	8.55	mg/Kg			08/16/21 23:53	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-18-55

Lab Sample ID: 890-1100-52

Date Collected: 08/11/21 16:25

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/13/21 08:34	08/14/21 15:37	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/13/21 08:34	08/14/21 15:37	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/13/21 08:34	08/14/21 15:37	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:34	08/14/21 15:37	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 08:34	08/14/21 15:37	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:34	08/14/21 15:37	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:34	08/14/21 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/13/21 08:34	08/14/21 15:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/13/21 08:34	08/14/21 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:44	1
Diesel Range Organics (Over C10-C28)	16.5	J	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:44	1
Total TPH	16.5	J	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/14/21 12:06	08/15/21 17:44	1
o-Terphenyl	105		70 - 130	08/14/21 12:06	08/15/21 17:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	825		4.95	0.850	mg/Kg			08/16/21 23:58	1

Client Sample ID: SB-18-60

Lab Sample ID: 890-1100-53

Date Collected: 08/11/21 16:40

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 60

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/13/21 08:34	08/14/21 15:57	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/13/21 08:34	08/14/21 15:57	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/13/21 08:34	08/14/21 15:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 15:57	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/13/21 08:34	08/14/21 15:57	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 15:57	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/13/21 08:34	08/14/21 15:57	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/13/21 08:34	08/14/21 15:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-18-60

Lab Sample ID: 890-1100-53

Date Collected: 08/11/21 16:40

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 60

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 18:05	1
Diesel Range Organics (Over C10-C28)	15.7	J	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 18:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 18:05	1
Total TPH	15.7	J	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/14/21 12:06	08/15/21 18:05	1
o-Terphenyl	127		70 - 130	08/14/21 12:06	08/15/21 18:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	741		5.00	0.858	mg/Kg	-		08/17/21 00:04	1

Client Sample ID: SB-21A-2

Lab Sample ID: 890-1100-54

Date Collected: 08/11/21 16:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg	-	08/13/21 08:34	08/14/21 16:18	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg	-	08/13/21 08:34	08/14/21 16:18	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg	-	08/13/21 08:34	08/14/21 16:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg	-	08/13/21 08:34	08/14/21 16:18	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg	-	08/13/21 08:34	08/14/21 16:18	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg	-	08/13/21 08:34	08/14/21 16:18	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg	-	08/13/21 08:34	08/14/21 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/13/21 08:34	08/14/21 16:18	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/13/21 08:34	08/14/21 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 18:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 18:27	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	08/14/21 12:06	08/15/21 18:27	1
o-Terphenyl	115		70 - 130	08/14/21 12:06	08/15/21 18:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	778		4.97	0.853	mg/Kg	-		08/17/21 00:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21A-4

Lab Sample ID: 890-1100-55

Date Collected: 08/11/21 16:55

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 16:38	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 08:34	08/14/21 16:38	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 08:34	08/14/21 16:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 16:38	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/13/21 08:34	08/14/21 16:38	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 16:38	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/13/21 08:34	08/14/21 16:38	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/13/21 08:34	08/14/21 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 18:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 18:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 18:49	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	08/14/21 12:06	08/15/21 18:49	1
o-Terphenyl	104		70 - 130	08/14/21 12:06	08/15/21 18:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	692		5.00	0.858	mg/Kg			08/17/21 00:15	1

Client Sample ID: SB-21A-15

Lab Sample ID: 890-1100-56

Date Collected: 08/11/21 17:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 16:59	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:34	08/14/21 16:59	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:34	08/14/21 16:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 16:59	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 08:34	08/14/21 16:59	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 16:59	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/13/21 08:34	08/14/21 16:59	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/13/21 08:34	08/14/21 16:59	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21A-15

Lab Sample ID: 890-1100-56

Date Collected: 08/11/21 17:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 19:10	1
Diesel Range Organics (Over C10-C28)	15.8	J	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 19:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 19:10	1
Total TPH	15.8	J	49.9	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	08/14/21 12:06	08/15/21 19:10	1
o-Terphenyl	87		70 - 130	08/14/21 12:06	08/15/21 19:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7080	F1	49.6	8.51	mg/Kg	-		08/17/21 00:21	10

Client Sample ID: SB-21A-35

Lab Sample ID: 890-1100-57

Date Collected: 08/11/21 17:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg	-	08/13/21 08:34	08/14/21 17:19	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg	-	08/13/21 08:34	08/14/21 17:19	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg	-	08/13/21 08:34	08/14/21 17:19	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/13/21 08:34	08/14/21 17:19	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg	-	08/13/21 08:34	08/14/21 17:19	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/13/21 08:34	08/14/21 17:19	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/13/21 08:34	08/14/21 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/13/21 08:34	08/14/21 17:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/13/21 08:34	08/14/21 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 19:32	1
Diesel Range Organics (Over C10-C28)	16.3	J	50.0	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 19:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 19:32	1
Total TPH	16.3	J	50.0	15.0	mg/Kg	-	08/14/21 12:06	08/15/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	08/14/21 12:06	08/15/21 19:32	1
o-Terphenyl	101		70 - 130	08/14/21 12:06	08/15/21 19:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9180		50.0	8.58	mg/Kg	-		08/17/21 00:38	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21A-55

Lab Sample ID: 890-1100-58

Date Collected: 08/11/21 18:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/13/21 08:34	08/14/21 17:39	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/13/21 08:34	08/14/21 17:39	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/13/21 08:34	08/14/21 17:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 17:39	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/13/21 08:34	08/14/21 17:39	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 17:39	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/13/21 08:34	08/14/21 17:39	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/13/21 08:34	08/14/21 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 19:54	1
Diesel Range Organics (Over C10-C28)	15.4	J	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 19:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 19:54	1
Total TPH	15.4	J	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/14/21 12:06	08/15/21 19:54	1
o-Terphenyl	102		70 - 130	08/14/21 12:06	08/15/21 19:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	272		5.05	0.867	mg/Kg			08/17/21 00:43	1

Client Sample ID: SB-21A-60

Lab Sample ID: 890-1100-59

Date Collected: 08/11/21 19:00

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 60

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/13/21 08:34	08/14/21 18:00	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 08:34	08/14/21 18:00	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 08:34	08/14/21 18:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:34	08/14/21 18:00	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 08:34	08/14/21 18:00	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:34	08/14/21 18:00	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:34	08/14/21 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/13/21 08:34	08/14/21 18:00	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/13/21 08:34	08/14/21 18:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21A-60

Lab Sample ID: 890-1100-59

Date Collected: 08/11/21 19:00

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 60

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:15	1
Diesel Range Organics (Over C10-C28)	15.7	J	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:15	1
Total TPH	15.7	J	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/14/21 12:06	08/15/21 20:15	1
o-Terphenyl	96		70 - 130	08/14/21 12:06	08/15/21 20:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.8		5.01	0.860	mg/Kg			08/17/21 01:00	1

Client Sample ID: SB-28-2

Lab Sample ID: 890-1100-60

Date Collected: 08/10/21 10:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 18:20	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:34	08/14/21 18:20	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:34	08/14/21 18:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 18:20	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 08:34	08/14/21 18:20	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 18:20	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	08/13/21 08:34	08/14/21 18:20	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/13/21 08:34	08/14/21 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:37	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	08/14/21 12:06	08/15/21 20:37	1
o-Terphenyl	83		70 - 130	08/14/21 12:06	08/15/21 20:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	356		4.98	0.855	mg/Kg			08/17/21 01:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-28-4

Lab Sample ID: 890-1100-61

Date Collected: 08/10/21 10:25

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:46	08/14/21 13:44	1
Toluene	0.000535	J	0.00199	0.000454	mg/Kg		08/13/21 08:46	08/14/21 13:44	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:46	08/14/21 13:44	1
m-Xylene & p-Xylene	0.00102	J	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 13:44	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 08:46	08/14/21 13:44	1
Xylenes, Total	0.00102	J	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 13:44	1
Total BTEX	0.00156	J	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/13/21 08:46	08/14/21 13:44	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/13/21 08:46	08/14/21 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 12:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 12:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 12:15	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/14/21 12:26	08/15/21 12:15	1
o-Terphenyl	87		70 - 130	08/14/21 12:26	08/15/21 12:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357		4.95	0.850	mg/Kg			08/17/21 01:11	1

Client Sample ID: SB-28-20

Lab Sample ID: 890-1100-62

Date Collected: 08/10/21 10:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		08/13/21 08:46	08/14/21 14:05	1
Toluene	0.00100	J	0.00200	0.000457	mg/Kg		08/13/21 08:46	08/14/21 14:05	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/13/21 08:46	08/14/21 14:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:05	1
o-Xylene	0.000387	J	0.00200	0.000345	mg/Kg		08/13/21 08:46	08/14/21 14:05	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:05	1
Total BTEX	0.00139	J	0.00401	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/13/21 08:46	08/14/21 14:05	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/13/21 08:46	08/14/21 14:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-28-20

Lab Sample ID: 890-1100-62

Date Collected: 08/10/21 10:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 13:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 13:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 13:18	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	08/14/21 12:26	08/15/21 13:18	1
o-Terphenyl	85		70 - 130	08/14/21 12:26	08/15/21 13:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3310		25.3	4.33	mg/Kg	-		08/17/21 01:17	5

Client Sample ID: SB-28-25

Lab Sample ID: 890-1100-63

Date Collected: 08/10/21 10:55

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg	-	08/13/21 08:46	08/14/21 14:25	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg	-	08/13/21 08:46	08/14/21 14:25	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg	-	08/13/21 08:46	08/14/21 14:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg	-	08/13/21 08:46	08/14/21 14:25	1
o-Xylene	0.000343	J	0.00200	0.000343	mg/Kg	-	08/13/21 08:46	08/14/21 14:25	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg	-	08/13/21 08:46	08/14/21 14:25	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg	-	08/13/21 08:46	08/14/21 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	08/13/21 08:46	08/14/21 14:25	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/13/21 08:46	08/14/21 14:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 13:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 13:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 13:40	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	08/14/21 12:26	08/15/21 13:40	1
o-Terphenyl	78		70 - 130	08/14/21 12:26	08/15/21 13:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2440		24.9	4.27	mg/Kg	-		08/17/21 01:22	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-28-40

Lab Sample ID: 890-1100-64

Date Collected: 08/10/21 11:30

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 40

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:46	08/14/21 14:46	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:46	08/14/21 14:46	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:46	08/14/21 14:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:46	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:46	08/14/21 14:46	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:46	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/13/21 08:46	08/14/21 14:46	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/13/21 08:46	08/14/21 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 14:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 14:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 14:01	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	08/14/21 12:26	08/15/21 14:01	1
o-Terphenyl	84		70 - 130	08/14/21 12:26	08/15/21 14:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	580		5.00	0.858	mg/Kg			08/17/21 01:28	1

Client Sample ID: SB-28-45

Lab Sample ID: 890-1100-65

Date Collected: 08/10/21 11:45

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:46	08/14/21 15:07	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:46	08/14/21 15:07	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:46	08/14/21 15:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 15:07	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:46	08/14/21 15:07	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 15:07	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/13/21 08:46	08/14/21 15:07	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/13/21 08:46	08/14/21 15:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-28-45

Lab Sample ID: 890-1100-65

Date Collected: 08/10/21 11:45

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 14:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 14:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 14:22	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	08/14/21 12:26	08/15/21 14:22	1
o-Terphenyl	84		70 - 130	08/14/21 12:26	08/15/21 14:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	308		5.00	0.858	mg/Kg	-		08/17/21 01:34	1

Client Sample ID: SB-40A-2

Lab Sample ID: 890-1100-66

Date Collected: 08/12/21 08:05

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg	-	08/13/21 08:46	08/14/21 15:28	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg	-	08/13/21 08:46	08/14/21 15:28	1
Ethylbenzene	0.00132	J	0.00202	0.000571	mg/Kg	-	08/13/21 08:46	08/14/21 15:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/13/21 08:46	08/14/21 15:28	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg	-	08/13/21 08:46	08/14/21 15:28	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/13/21 08:46	08/14/21 15:28	1
Total BTEX	0.00132	J	0.00404	0.00102	mg/Kg	-	08/13/21 08:46	08/14/21 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/13/21 08:46	08/14/21 15:28	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/13/21 08:46	08/14/21 15:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 14:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 14:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 14:44	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	08/14/21 12:26	08/15/21 14:44	1
o-Terphenyl	77		70 - 130	08/14/21 12:26	08/15/21 14:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.1		4.98	0.855	mg/Kg	-		08/17/21 02:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-40A-4

Lab Sample ID: 890-1100-67

Date Collected: 08/12/21 08:10

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		08/13/21 08:46	08/14/21 15:48	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		08/13/21 08:46	08/14/21 15:48	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/13/21 08:46	08/14/21 15:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 08:46	08/14/21 15:48	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		08/13/21 08:46	08/14/21 15:48	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 08:46	08/14/21 15:48	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 08:46	08/14/21 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/13/21 08:46	08/14/21 15:48	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/13/21 08:46	08/14/21 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 15:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 15:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 15:05	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	08/14/21 12:26	08/15/21 15:05	1
o-Terphenyl	77		70 - 130	08/14/21 12:26	08/15/21 15:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.9		5.04	0.865	mg/Kg			08/17/21 08:18	1

Client Sample ID: SB-40A-10

Lab Sample ID: 890-1100-68

Date Collected: 08/12/21 08:40

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 10

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000527	J	0.00201	0.000387	mg/Kg		08/13/21 08:46	08/14/21 16:09	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/13/21 08:46	08/14/21 16:09	1
Ethylbenzene	0.00111	J	0.00201	0.000567	mg/Kg		08/13/21 08:46	08/14/21 16:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:09	1
o-Xylene	0.000603	J	0.00201	0.000345	mg/Kg		08/13/21 08:46	08/14/21 16:09	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:09	1
Total BTEX	0.00224	J	0.00402	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/13/21 08:46	08/14/21 16:09	1
1,4-Difluorobenzene (Surr)	106		70 - 130	08/13/21 08:46	08/14/21 16:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-40A-10

Lab Sample ID: 890-1100-68

Date Collected: 08/12/21 08:40

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 15:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 15:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 15:26	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	08/14/21 12:26	08/15/21 15:26	1
o-Terphenyl	82		70 - 130	08/14/21 12:26	08/15/21 15:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		5.01	0.860	mg/Kg	-		08/17/21 08:23	1

Client Sample ID: SB-40A-20

Lab Sample ID: 890-1100-69

Date Collected: 08/12/21 08:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00161	J	0.00201	0.000387	mg/Kg	-	08/13/21 08:46	08/14/21 16:30	1
Toluene	0.00287		0.00201	0.000458	mg/Kg	-	08/13/21 08:46	08/14/21 16:30	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg	-	08/13/21 08:46	08/14/21 16:30	1
m-Xylene & p-Xylene	0.00126	J	0.00402	0.00101	mg/Kg	-	08/13/21 08:46	08/14/21 16:30	1
o-Xylene	0.000887	J	0.00201	0.000345	mg/Kg	-	08/13/21 08:46	08/14/21 16:30	1
Xylenes, Total	0.00215	J	0.00402	0.00101	mg/Kg	-	08/13/21 08:46	08/14/21 16:30	1
Total BTEX	0.00663		0.00402	0.00101	mg/Kg	-	08/13/21 08:46	08/14/21 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	08/13/21 08:46	08/14/21 16:30	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/13/21 08:46	08/14/21 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 15:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 15:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 15:48	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	08/14/21 12:26	08/15/21 15:48	1
o-Terphenyl	89		70 - 130	08/14/21 12:26	08/15/21 15:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	398		4.97	0.853	mg/Kg	-		08/17/21 08:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-40A-25

Lab Sample ID: 890-1100-70

Date Collected: 08/12/21 08:55

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00427		0.00200	0.000384	mg/Kg		08/13/21 08:46	08/14/21 16:51	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 08:46	08/14/21 16:51	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 08:46	08/14/21 16:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:51	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 08:46	08/14/21 16:51	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:51	1
Total BTEX	0.00427		0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	08/13/21 08:46	08/14/21 16:51	1
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130	08/13/21 08:46	08/14/21 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 16:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 16:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 16:09	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	08/14/21 12:26	08/15/21 16:09	1
o-Terphenyl	72		70 - 130	08/14/21 12:26	08/15/21 16:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		4.95	0.850	mg/Kg			08/17/21 08:35	1

Client Sample ID: SB-27A-2

Lab Sample ID: 890-1100-71

Date Collected: 08/12/21 09:10

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00130	J	0.00200	0.000385	mg/Kg		08/13/21 08:46	08/14/21 18:17	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:46	08/14/21 18:17	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:46	08/14/21 18:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 18:17	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:46	08/14/21 18:17	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 18:17	1
Total BTEX	0.00130	J	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	08/13/21 08:46	08/14/21 18:17	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/13/21 08:46	08/14/21 18:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-27A-2

Lab Sample ID: 890-1100-71

Date Collected: 08/12/21 09:10

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 16:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 16:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 16:51	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	08/14/21 12:26	08/15/21 16:51	1
o-Terphenyl	83		70 - 130	08/14/21 12:26	08/15/21 16:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.2		4.95	0.850	mg/Kg	-		08/17/21 08:51	1

Client Sample ID: SB-27A-4

Lab Sample ID: 890-1100-72

Date Collected: 08/12/21 09:15

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00244		0.00199	0.000383	mg/Kg	-	08/13/21 08:46	08/14/21 18:37	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg	-	08/13/21 08:46	08/14/21 18:37	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg	-	08/13/21 08:46	08/14/21 18:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg	-	08/13/21 08:46	08/14/21 18:37	1
o-Xylene	0.000917	J	0.00199	0.000342	mg/Kg	-	08/13/21 08:46	08/14/21 18:37	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg	-	08/13/21 08:46	08/14/21 18:37	1
Total BTEX	0.00336	J	0.00398	0.00100	mg/Kg	-	08/13/21 08:46	08/14/21 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/13/21 08:46	08/14/21 18:37	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/13/21 08:46	08/14/21 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 17:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 17:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 17:13	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	08/14/21 12:26	08/15/21 17:13	1
o-Terphenyl	75		70 - 130	08/14/21 12:26	08/15/21 17:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.4		5.04	0.865	mg/Kg	-		08/17/21 08:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-27A-10

Lab Sample ID: 890-1100-73

Date Collected: 08/12/21 09:40

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 10

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00282		0.00201	0.000387	mg/Kg		08/13/21 08:46	08/14/21 18:58	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		08/13/21 08:46	08/14/21 18:58	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		08/13/21 08:46	08/14/21 18:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		08/13/21 08:46	08/14/21 18:58	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		08/13/21 08:46	08/14/21 18:58	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		08/13/21 08:46	08/14/21 18:58	1
Total BTEX	0.00282	J	0.00402	0.00102	mg/Kg		08/13/21 08:46	08/14/21 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/13/21 08:46	08/14/21 18:58	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/13/21 08:46	08/14/21 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:34	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	08/14/21 12:26	08/15/21 17:34	1
o-Terphenyl	85		70 - 130	08/14/21 12:26	08/15/21 17:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.0		4.98	0.855	mg/Kg			08/17/21 09:03	1

Client Sample ID: SB-27A-15

Lab Sample ID: 890-1100-74

Date Collected: 08/12/21 09:45

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:46	08/14/21 19:19	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:46	08/14/21 19:19	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:46	08/14/21 19:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 19:19	1
o-Xylene	0.000440	J	0.00199	0.000343	mg/Kg		08/13/21 08:46	08/14/21 19:19	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 19:19	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	08/13/21 08:46	08/14/21 19:19	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/13/21 08:46	08/14/21 19:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-27A-15

Lab Sample ID: 890-1100-74

Date Collected: 08/12/21 09:45

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 17:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 17:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 17:55	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	08/14/21 12:26	08/15/21 17:55	1
o-Terphenyl	78		70 - 130	08/14/21 12:26	08/15/21 17:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		4.95	0.850	mg/Kg	-		08/17/21 09:08	1

Client Sample ID: SB-27A-20

Lab Sample ID: 890-1100-75

Date Collected: 08/12/21 09:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg	-	08/13/21 08:46	08/14/21 19:40	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg	-	08/13/21 08:46	08/14/21 19:40	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg	-	08/13/21 08:46	08/14/21 19:40	1
m-Xylene & p-Xylene	0.00203	J	0.00398	0.00101	mg/Kg	-	08/13/21 08:46	08/14/21 19:40	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg	-	08/13/21 08:46	08/14/21 19:40	1
Xylenes, Total	0.00203	J	0.00398	0.00101	mg/Kg	-	08/13/21 08:46	08/14/21 19:40	1
Total BTEX	0.00203	J	0.00398	0.00101	mg/Kg	-	08/13/21 08:46	08/14/21 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	08/13/21 08:46	08/14/21 19:40	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/13/21 08:46	08/14/21 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 18:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 18:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 18:17	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	08/14/21 12:26	08/15/21 18:17	1
o-Terphenyl	70		70 - 130	08/14/21 12:26	08/15/21 18:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224		5.05	0.867	mg/Kg	-		08/17/21 09:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21B-2

Lab Sample ID: 890-1100-76

Date Collected: 08/12/21 10:00

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00244		0.00198	0.000382	mg/Kg		08/13/21 08:46	08/14/21 20:01	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg		08/13/21 08:46	08/14/21 20:01	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		08/13/21 08:46	08/14/21 20:01	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg		08/13/21 08:46	08/14/21 20:01	1
o-Xylene	0.000700	J	0.00198	0.000341	mg/Kg		08/13/21 08:46	08/14/21 20:01	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg		08/13/21 08:46	08/14/21 20:01	1
Total BTEX	0.00314	J	0.00397	0.00100	mg/Kg		08/13/21 08:46	08/14/21 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/13/21 08:46	08/14/21 20:01	1
1,4-Difluorobenzene (Surr)	70		70 - 130	08/13/21 08:46	08/14/21 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 18:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 18:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 18:38	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	56	S1-	70 - 130	08/14/21 12:26	08/15/21 18:38	1
o-Terphenyl	54	S1-	70 - 130	08/14/21 12:26	08/15/21 18:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.9		5.01	0.860	mg/Kg			08/17/21 09:19	1

Client Sample ID: SB-21B-4

Lab Sample ID: 890-1100-77

Date Collected: 08/12/21 10:05

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:46	08/14/21 20:21	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:46	08/14/21 20:21	1
Ethylbenzene	0.00147	J	0.00200	0.000565	mg/Kg		08/13/21 08:46	08/14/21 20:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 20:21	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:46	08/14/21 20:21	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 20:21	1
Total BTEX	0.00147	J	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/13/21 08:46	08/14/21 20:21	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/13/21 08:46	08/14/21 20:21	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21B-4

Lab Sample ID: 890-1100-77

Date Collected: 08/12/21 10:05

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 19:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 19:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 19:00	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130	08/14/21 12:26	08/15/21 19:00	1
o-Terphenyl	59	S1-	70 - 130	08/14/21 12:26	08/15/21 19:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.9		4.98	0.855	mg/Kg	-		08/17/21 09:36	1

Client Sample ID: SB-21B-6

Lab Sample ID: 890-1100-78

Date Collected: 08/12/21 10:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg	-	08/13/21 08:46	08/14/21 20:42	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg	-	08/13/21 08:46	08/14/21 20:42	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg	-	08/13/21 08:46	08/14/21 20:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg	-	08/13/21 08:46	08/14/21 20:42	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg	-	08/13/21 08:46	08/14/21 20:42	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg	-	08/13/21 08:46	08/14/21 20:42	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg	-	08/13/21 08:46	08/14/21 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/13/21 08:46	08/14/21 20:42	1
1,4-Difluorobenzene (Surr)	119		70 - 130	08/13/21 08:46	08/14/21 20:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 19:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 19:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 19:22	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/14/21 12:26	08/15/21 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130	08/14/21 12:26	08/15/21 19:22	1
o-Terphenyl	72		70 - 130	08/14/21 12:26	08/15/21 19:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1790		24.8	4.25	mg/Kg	-		08/17/21 09:42	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21B-15

Lab Sample ID: 890-1100-79

Date Collected: 08/12/21 10:35

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000636	J	0.00200	0.000384	mg/Kg		08/13/21 08:46	08/14/21 21:03	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 08:46	08/14/21 21:03	1
Ethylbenzene	0.000761	J	0.00200	0.000564	mg/Kg		08/13/21 08:46	08/14/21 21:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 21:03	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 08:46	08/14/21 21:03	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 21:03	1
Total BTEX	0.00140	J	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/13/21 08:46	08/14/21 21:03	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130	08/13/21 08:46	08/14/21 21:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 19:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 19:43	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	08/14/21 12:26	08/15/21 19:43	1
o-Terphenyl	80		70 - 130	08/14/21 12:26	08/15/21 19:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		4.97	0.853	mg/Kg			08/17/21 09:59	1

Client Sample ID: SB-21B-20

Lab Sample ID: 890-1100-80

Date Collected: 08/12/21 10:40

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00107	J	0.00200	0.000384	mg/Kg		08/13/21 08:47	08/14/21 21:24	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 08:47	08/14/21 21:24	1
Ethylbenzene	0.000844	J	0.00200	0.000564	mg/Kg		08/13/21 08:47	08/14/21 21:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:47	08/14/21 21:24	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 08:47	08/14/21 21:24	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:47	08/14/21 21:24	1
Total BTEX	0.00191	J	0.00399	0.00101	mg/Kg		08/13/21 08:47	08/14/21 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/13/21 08:47	08/14/21 21:24	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/13/21 08:47	08/14/21 21:24	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21B-20

Lab Sample ID: 890-1100-80

Date Collected: 08/12/21 10:40

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 20:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 20:04	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg	-	08/14/21 12:26	08/15/21 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130	08/14/21 12:26	08/15/21 20:04	1
o-Terphenyl	64	S1-	70 - 130	08/14/21 12:26	08/15/21 20:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		5.00	0.858	mg/Kg	-		08/17/21 10:04	1

Client Sample ID: SB-21C-2

Lab Sample ID: 890-1100-81

Date Collected: 08/12/21 11:20

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200	0.000384	mg/Kg	-	08/14/21 10:00	08/14/21 21:44	1
Toluene	<0.00200	U F2 F1	0.00200	0.000455	mg/Kg	-	08/14/21 10:00	08/14/21 21:44	1
Ethylbenzene	<0.00200	U F2 F1	0.00200	0.000564	mg/Kg	-	08/14/21 10:00	08/14/21 21:44	1
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.00399	0.00101	mg/Kg	-	08/14/21 10:00	08/14/21 21:44	1
o-Xylene	<0.00200	U F2 F1	0.00200	0.000343	mg/Kg	-	08/14/21 10:00	08/14/21 21:44	1
Xylenes, Total	<0.00399	U F2 F1	0.00399	0.00101	mg/Kg	-	08/14/21 10:00	08/14/21 21:44	1
Total BTEX	<0.00399	U F2 F1	0.00399	0.00101	mg/Kg	-	08/14/21 10:00	08/14/21 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/14/21 10:00	08/14/21 21:44	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/14/21 10:00	08/14/21 21:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg	-	08/16/21 08:50	08/16/21 13:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg	-	08/16/21 08:50	08/16/21 13:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	08/16/21 08:50	08/16/21 13:15	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg	-	08/16/21 08:50	08/16/21 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	08/16/21 08:50	08/16/21 13:15	1
o-Terphenyl	96		70 - 130	08/16/21 08:50	08/16/21 13:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.2		5.00	0.858	mg/Kg	-		08/17/21 10:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21C-4

Lab Sample ID: 890-1100-82

Date Collected: 08/12/21 11:25

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/14/21 10:00	08/14/21 22:04	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/14/21 10:00	08/14/21 22:04	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/14/21 10:00	08/14/21 22:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/14/21 10:00	08/14/21 22:04	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/14/21 10:00	08/14/21 22:04	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/14/21 10:00	08/14/21 22:04	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/14/21 10:00	08/14/21 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	08/14/21 10:00	08/14/21 22:04	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/14/21 10:00	08/14/21 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/16/21 08:50	08/16/21 14:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/16/21 08:50	08/16/21 14:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/16/21 08:50	08/16/21 14:17	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/16/21 08:50	08/16/21 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	08/16/21 08:50	08/16/21 14:17	1
o-Terphenyl	95		70 - 130	08/16/21 08:50	08/16/21 14:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.8		4.98	0.855	mg/Kg			08/17/21 10:16	1

Client Sample ID: SB-21C-6

Lab Sample ID: 890-1100-83

Date Collected: 08/12/21 11:30

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/14/21 10:00	08/14/21 22:25	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/14/21 10:00	08/14/21 22:25	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/14/21 10:00	08/14/21 22:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/14/21 10:00	08/14/21 22:25	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/14/21 10:00	08/14/21 22:25	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/14/21 10:00	08/14/21 22:25	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/14/21 10:00	08/14/21 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	08/14/21 10:00	08/14/21 22:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/14/21 10:00	08/14/21 22:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21C-6

Lab Sample ID: 890-1100-83

Date Collected: 08/12/21 11:30

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg	-	08/16/21 08:50	08/16/21 14:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg	-	08/16/21 08:50	08/16/21 14:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg	-	08/16/21 08:50	08/16/21 14:38	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg	-	08/16/21 08:50	08/16/21 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	08/16/21 08:50	08/16/21 14:38	1
o-Terphenyl	95		70 - 130	08/16/21 08:50	08/16/21 14:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		4.95	0.850	mg/Kg	-		08/17/21 10:21	1

Client Sample ID: SB-21C-15

Lab Sample ID: 890-1100-84

Date Collected: 08/12/21 11:45

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg	-	08/14/21 10:00	08/14/21 22:45	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg	-	08/14/21 10:00	08/14/21 22:45	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg	-	08/14/21 10:00	08/14/21 22:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/14/21 10:00	08/14/21 22:45	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg	-	08/14/21 10:00	08/14/21 22:45	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/14/21 10:00	08/14/21 22:45	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg	-	08/14/21 10:00	08/14/21 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	08/14/21 10:00	08/14/21 22:45	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/14/21 10:00	08/14/21 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg	-	08/16/21 08:50	08/16/21 14:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	08/16/21 08:50	08/16/21 14:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	08/16/21 08:50	08/16/21 14:59	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg	-	08/16/21 08:50	08/16/21 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/16/21 08:50	08/16/21 14:59	1
o-Terphenyl	99		70 - 130	08/16/21 08:50	08/16/21 14:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.04	0.865	mg/Kg	-		08/17/21 10:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21C-20

Lab Sample ID: 890-1100-85

Date Collected: 08/12/21 11:50

Matrix: Solid

Date Received: 08/12/21 13:46

Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/14/21 10:00	08/14/21 23:05	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/14/21 10:00	08/14/21 23:05	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/14/21 10:00	08/14/21 23:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/14/21 10:00	08/14/21 23:05	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/14/21 10:00	08/14/21 23:05	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/14/21 10:00	08/14/21 23:05	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/14/21 10:00	08/14/21 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	08/14/21 10:00	08/14/21 23:05	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/14/21 10:00	08/14/21 23:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/16/21 08:50	08/16/21 15:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/16/21 08:50	08/16/21 15:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/16/21 08:50	08/16/21 15:21	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/16/21 08:50	08/16/21 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	08/16/21 08:50	08/16/21 15:21	1
o-Terphenyl	93		70 - 130	08/16/21 08:50	08/16/21 15:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.9		4.98	0.855	mg/Kg			08/17/21 10:32	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1100-1	SB-33-2	98	95
890-1100-1 MS	SB-33-2	130	129
890-1100-2	SB-33-4	106	104
890-1100-3	SB-33-20	108	81
890-1100-4	SB-33-55	108	93
890-1100-5	SB-33-60	120	105
890-1100-6	SB-33-65	109	74
890-1100-7	SB-31-2	111	91
890-1100-8	SB-31-4	777 S1+	103
890-1100-9	SB-31-15	127	125
890-1100-10	SB-31-25	99	96
890-1100-11	SB-31-30	103	101
890-1100-12	SB-30-2	96	81
890-1100-13	SB-30-4	113	96
890-1100-14	SB-30-8	119	104
890-1100-15	SB-30-25	123	99
890-1100-16	SB-30-30	117	81
890-1100-17	SB-26-2	136 S1+	125
890-1100-18	SB-26-4	117	94
890-1100-19	SB-26-15	119	108
890-1100-20	SB-26-25	106	105
890-1100-21	SB-26-30	115	107
890-1100-21 MS	SB-26-30	107	103
890-1100-22	SB-25-2	121	102
890-1100-23	SB-25-4	139 S1+	108
890-1100-24	SB-25-15	124	103
890-1100-25	SB-25-30	121	102
890-1100-26	SB-25-40	115	112
890-1100-27	SB-25-45	115	106
890-1100-28	SB-24-2	115	107
890-1100-29	SB-24-4	118	104
890-1100-30	SB-24-15	533 S1+	27 S1-
890-1100-31	SB-24-25	111	113
890-1100-32	SB-24-30	117	117
890-1100-33	SB-29-2	110	113
890-1100-34	SB-29-4	114	111
890-1100-35	SB-29-10	117	115
890-1100-36	SB-29-15	122	116
890-1100-37	SB-29-25	116	113
890-1100-38	SB-22-2	133 S1+	113
890-1100-39	SB-22-4	115	111
890-1100-40	SB-22-15	118	111
890-1100-41	SB-22-30	118	100
890-1100-42	SB-22-45	132 S1+	105
890-1100-43	SB-22-50	112	97
890-1100-44	SB-19-2	122	98
890-1100-45	SB-19-4	120	103
890-1100-46	SB-19-20	112	97
890-1100-47	SB-19-45	120	93

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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)
890-1100-48	SB-19-50	109	94
890-1100-49	SB-18-2	113	92
890-1100-50	SB-18-4	114	92
890-1100-51	SB-18-30	121	100
890-1100-52	SB-18-55	114	96
890-1100-53	SB-18-60	121	96
890-1100-54	SB-21A-2	110	98
890-1100-55	SB-21A-4	112	93
890-1100-56	SB-21A-15	104	97
890-1100-57	SB-21A-35	116	97
890-1100-58	SB-21A-55	119	98
890-1100-59	SB-21A-60	114	95
890-1100-60	SB-28-2	94	99
890-1100-61	SB-28-4	99	94
890-1100-61 MS	SB-28-4	112	97
890-1100-62	SB-28-20	108	97
890-1100-63	SB-28-25	93	89
890-1100-64	SB-28-40	109	116
890-1100-65	SB-28-45	109	101
890-1100-66	SB-40A-2	114	107
890-1100-67	SB-40A-4	115	113
890-1100-68	SB-40A-10	104	106
890-1100-69	SB-40A-20	84	109
890-1100-70	SB-40A-25	142 S1+	131 S1+
890-1100-71	SB-27A-2	90	107
890-1100-72	SB-27A-4	108	94
890-1100-73	SB-27A-10	100	95
890-1100-74	SB-27A-15	91	104
890-1100-75	SB-27A-20	88	99
890-1100-76	SB-21B-2	117	70
890-1100-77	SB-21B-4	113	98
890-1100-78	SB-21B-6	99	119
890-1100-79	SB-21B-15	110	132 S1+
890-1100-80	SB-21B-20	104	98
890-1100-81	SB-21C-2	106	95
890-1100-81 MS	SB-21C-2	106	104
890-1100-81 MSD	SB-21C-2	94	89
890-1100-82	SB-21C-4	125	97
890-1100-83	SB-21C-6	133 S1+	97
890-1100-84	SB-21C-15	133 S1+	104
890-1100-85	SB-21C-20	135 S1+	96
LCS 880-6479/1-A	Lab Control Sample	82	94
LCS 880-6492/1-A	Lab Control Sample	108	106
LCS 880-6494/1-A	Lab Control Sample	107	117
LCS 880-6497/1-A	Lab Control Sample	102	108
LCS 880-6514/1-A	Lab Control Sample	101	105
LCSD 880-6479/2-A	Lab Control Sample Dup	102	110
LCSD 880-6492/2-A	Lab Control Sample Dup	109	105
LCSD 880-6497/2-A	Lab Control Sample Dup	103	109
LCSD 880-6514/2-A	Lab Control Sample Dup	105	103

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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)
MB 880-6455/5-A	Method Blank	120	111
MB 880-6457/5-A	Method Blank	104	97
MB 880-6478/5-A	Method Blank	105	95
MB 880-6479/5-A	Method Blank	115	105
MB 880-6492/5-A	Method Blank	103	94
MB 880-6494/5-A	Method Blank	119	113
MB 880-6497/5-A	Method Blank	135 S1+	100
MB 880-6514/5-A	Method Blank	105	94
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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
890-1100-1 MSD	SB-33-2		
890-1100-21 MSD	SB-26-30		
890-1100-41 MS	SB-22-30		
890-1100-41 MSD	SB-22-30		
890-1100-61 MSD	SB-28-4		
LCSD 880-6494/2-A	Lab Control Sample Dup		
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)
890-1100-1	SB-33-2	80	87
890-1100-1 MS	SB-33-2	72	72
890-1100-1 MSD	SB-33-2	72	72
890-1100-2	SB-33-4	80	86
890-1100-3	SB-33-20	84	94
890-1100-4	SB-33-55	79	87
890-1100-5	SB-33-60	79	84
890-1100-6	SB-33-65	97	105
890-1100-7	SB-31-2	78	85
890-1100-8	SB-31-4	79	87
890-1100-9	SB-31-15	82	92
890-1100-10	SB-31-25	87	97
890-1100-11	SB-31-30	84	95
890-1100-12	SB-30-2	78	83
890-1100-13	SB-30-4	81	88
890-1100-14	SB-30-8	89	101

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-1100-15	SB-30-25	79	87
890-1100-16	SB-30-30	81	89
890-1100-17	SB-26-2	80	85
890-1100-18	SB-26-4	78	87
890-1100-19	SB-26-15	77	87
890-1100-20	SB-26-25	77	87
890-1100-21	SB-26-30	112	116
890-1100-21 MS	SB-26-30	91	87
890-1100-21 MSD	SB-26-30	93	89
890-1100-22	SB-25-2	98	101
890-1100-23	SB-25-4	97	103
890-1100-24	SB-25-15	105	114
890-1100-25	SB-25-30	98	105
890-1100-26	SB-25-40	98	102
890-1100-27	SB-25-45	94	102
890-1100-28	SB-24-2	100	109
890-1100-29	SB-24-4	93	99
890-1100-30	SB-24-15	105	113
890-1100-31	SB-24-25	89	96
890-1100-32	SB-24-30	92	99
890-1100-33	SB-29-2	92	99
890-1100-34	SB-29-4	94	99
890-1100-35	SB-29-10	90	97
890-1100-36	SB-29-15	104	106
890-1100-37	SB-29-25	90	93
890-1100-38	SB-22-2	98	104
890-1100-39	SB-22-4	89	96
890-1100-40	SB-22-15	99	107
890-1100-41	SB-22-30	94	106
890-1100-42	SB-22-45	98	112
890-1100-42 MS	SB-22-45	94	96
890-1100-42 MSD	SB-22-45	92	95
890-1100-43	SB-22-50	87	94
890-1100-44	SB-19-2	91	99
890-1100-45	SB-19-4	103	115
890-1100-46	SB-19-20	100	113
890-1100-47	SB-19-45	92	107
890-1100-48	SB-19-50	89	94
890-1100-49	SB-18-2	89	93
890-1100-50	SB-18-4	100	108
890-1100-51	SB-18-30	86	96
890-1100-52	SB-18-55	98	105
890-1100-53	SB-18-60	116	127
890-1100-54	SB-21A-2	102	115
890-1100-55	SB-21A-4	93	104
890-1100-56	SB-21A-15	78	87
890-1100-57	SB-21A-35	88	101
890-1100-58	SB-21A-55	92	102
890-1100-59	SB-21A-60	89	96
890-1100-60	SB-28-2	79	83

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1100-61	SB-28-4	80	87
890-1100-61 MS	SB-28-4	72	72
890-1100-61 MSD	SB-28-4	73	72
890-1100-62	SB-28-20	77	85
890-1100-63	SB-28-25	74	78
890-1100-64	SB-28-40	77	84
890-1100-65	SB-28-45	77	84
890-1100-66	SB-40A-2	74	77
890-1100-67	SB-40A-4	74	77
890-1100-68	SB-40A-10	74	82
890-1100-69	SB-40A-20	85	89
890-1100-70	SB-40A-25	70	72
890-1100-71	SB-27A-2	77	83
890-1100-72	SB-27A-4	74	75
890-1100-73	SB-27A-10	77	85
890-1100-74	SB-27A-15	72	78
890-1100-75	SB-27A-20	67 S1-	70
890-1100-76	SB-21B-2	56 S1-	54 S1-
890-1100-77	SB-21B-4	59 S1-	59 S1-
890-1100-78	SB-21B-6	65 S1-	72
890-1100-79	SB-21B-15	79	80
890-1100-80	SB-21B-20	62 S1-	64 S1-
890-1100-81	SB-21C-2	90	96
890-1100-81 MS	SB-21C-2	92	87
890-1100-81 MSD	SB-21C-2	91	88
890-1100-82	SB-21C-4	87	95
890-1100-83	SB-21C-6	88	95
890-1100-84	SB-21C-15	92	99
890-1100-85	SB-21C-20	91	93
LCS 880-6569/2-A	Lab Control Sample	81	87
LCS 880-6577/2-A	Lab Control Sample	98	95
LCS 880-6578/2-A	Lab Control Sample	101	104
LCS 880-6579/2-A	Lab Control Sample	88	95
LCS 880-6589/2-A	Lab Control Sample	97	97
LCSD 880-6569/3-A	Lab Control Sample Dup	82	88
LCSD 880-6577/3-A	Lab Control Sample Dup	102	97
LCSD 880-6578/3-A	Lab Control Sample Dup	98	103
LCSD 880-6579/3-A	Lab Control Sample Dup	82	91
LCSD 880-6589/3-A	Lab Control Sample Dup	98	99
MB 880-6569/1-A	Method Blank	88	100
MB 880-6577/1-A	Method Blank	110	118
MB 880-6578/1-A	Method Blank	119	138 S1+
MB 880-6579/1-A	Method Blank	94	107
MB 880-6589/1-A	Method Blank	107	118

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6455/5-A

Matrix: Solid

Analysis Batch: 6512

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/12/21 13:37	08/13/21 17:58	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/12/21 13:37	08/13/21 17:58	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/12/21 13:37	08/13/21 17:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/12/21 13:37	08/13/21 17:58	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/12/21 13:37	08/13/21 17:58	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/12/21 13:37	08/13/21 17:58	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/12/21 13:37	08/13/21 17:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/12/21 13:37	08/13/21 17:58	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/12/21 13:37	08/13/21 17:58	1

Lab Sample ID: MB 880-6457/5-A

Matrix: Solid

Analysis Batch: 6495

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 09:00	08/13/21 12:24	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 09:00	08/13/21 12:24	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 09:00	08/13/21 12:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:00	08/13/21 12:24	1
o-Xylene	0.0004030	J	0.00200	0.000344	mg/Kg		08/13/21 09:00	08/13/21 12:24	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:00	08/13/21 12:24	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:00	08/13/21 12:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/13/21 09:00	08/13/21 12:24	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/13/21 09:00	08/13/21 12:24	1

Lab Sample ID: MB 880-6478/5-A

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6478

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/12/21 16:42	08/13/21 23:16	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/12/21 16:42	08/13/21 23:16	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/12/21 16:42	08/13/21 23:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/12/21 16:42	08/13/21 23:16	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/12/21 16:42	08/13/21 23:16	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/12/21 16:42	08/13/21 23:16	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/12/21 16:42	08/13/21 23:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/12/21 16:42	08/13/21 23:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/12/21 16:42	08/13/21 23:16	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: MB 880-6479/5-A

Matrix: Solid

Analysis Batch: 6495

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 10:30	08/13/21 23:26	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 10:30	08/13/21 23:26	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 10:30	08/13/21 23:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/13/21 23:26	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 10:30	08/13/21 23:26	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/13/21 23:26	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/13/21 23:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/13/21 10:30	08/13/21 23:26	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/13/21 10:30	08/13/21 23:26	1

Lab Sample ID: LCS 880-6479/1-A

Matrix: Solid

Analysis Batch: 6495

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08604		mg/Kg		86	70 - 130
Toluene	0.100	0.08986		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08333		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1522		mg/Kg		76	70 - 130
o-Xylene	0.100	0.07521		mg/Kg		75	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-6479/2-A

Matrix: Solid

Analysis Batch: 6495

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6479

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09435		mg/Kg		94	70 - 130	9	35
Toluene	0.100	0.09532		mg/Kg		95	70 - 130	6	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.1859		mg/Kg		93	70 - 130	20	35
o-Xylene	0.100	0.09072		mg/Kg		91	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-1100-1 MSD

Matrix: Solid

Analysis Batch: 6495

Client Sample ID: SB-33-2

Prep Type: Total/NA

Prep Batch: 6479

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.000474	J *- *1	0.0990	0.06877		mg/Kg					

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: 890-1100-1 MSD

Matrix: Solid

Analysis Batch: 6495

Client Sample ID: SB-33-2

Prep Type: Total/NA

Prep Batch: 6479

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	<0.000453	U	0.0990	0.1346		mg/Kg					
Ethylbenzene	<0.000562	U	0.0990	0.02119		mg/Kg					
m-Xylene & p-Xylene	<0.00100	U	0.198	0.2361		mg/Kg					
o-Xylene	<0.000342	U	0.0990	0.1105		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: MB 880-6492/5-A

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:34	08/14/21 10:29	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:34	08/14/21 10:29	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:34	08/14/21 10:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 10:29	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:34	08/14/21 10:29	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 10:29	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 10:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/13/21 08:34	08/14/21 10:29	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/13/21 08:34	08/14/21 10:29	1

Lab Sample ID: LCS 880-6492/1-A

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1030		mg/Kg		103	70 - 130
Toluene	0.100	0.09477		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09090		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1811		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09183		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-6492/2-A

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6492

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09527		mg/Kg		95	70 - 130	8	35
Toluene	0.100	0.08880		mg/Kg		89	70 - 130	7	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: LCSD 880-6492/2-A

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6492

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.08590		mg/Kg		86	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1713		mg/Kg		86	70 - 130	6	35
o-Xylene	0.100	0.08654		mg/Kg		87	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-1100-41 MS

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: SB-22-30

Prep Type: Total/NA

Prep Batch: 6492

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1100-41 MSD

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: SB-22-30

Prep Type: Total/NA

Prep Batch: 6492

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.09331		mg/Kg					
Toluene	<0.00199	U	0.0996	0.08778		mg/Kg					
Ethylbenzene	<0.00199	U	0.0996	0.08724		mg/Kg					
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1755		mg/Kg					
o-Xylene	<0.00199	U	0.0996	0.08825		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: MB 880-6494/5-A

Matrix: Solid

Analysis Batch: 6495

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:46	08/14/21 13:22	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:46	08/14/21 13:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:46	08/14/21 13:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 13:22	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:46	08/14/21 13:22	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 13:22	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 13:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/13/21 08:46	08/14/21 13:22	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/13/21 08:46	08/14/21 13:22	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: LCS 880-6494/1-A

Matrix: Solid

Analysis Batch: 6495

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08919		mg/Kg		89	70 - 130
Toluene	0.100	0.09762		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09704		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1894		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09054		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-6494/2-A

Matrix: Solid

Analysis Batch: 6495

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08568		mg/Kg					
Toluene	0.100	0.1073		mg/Kg					
Ethylbenzene	0.100	0.1123		mg/Kg					
m-Xylene & p-Xylene	0.200	0.2095		mg/Kg					
o-Xylene	0.100	0.09952		mg/Kg					

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1100-61 MSD

Matrix: Solid

Analysis Batch: 6495

Client Sample ID: SB-28-4

Prep Type: Total/NA

Prep Batch: 6494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.000383	U	0.0998	<0.00200	U	mg/Kg					
Toluene	0.000535	J	0.0998	0.0007065	J	mg/Kg					
Ethylbenzene	<0.000563	U	0.0998	0.003817		mg/Kg					
m-Xylene & p-Xylene	0.00102	J	0.200	0.006508		mg/Kg					
o-Xylene	<0.000343	U	0.0998	0.003501		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1100-1 MS

Matrix: Solid

Analysis Batch: 6495

Client Sample ID: SB-33-2

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	129		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: 890-1100-61 MS

Matrix: Solid

Analysis Batch: 6495

Client Sample ID: SB-28-4

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-6497/5-A

Matrix: Solid

Analysis Batch: 6512

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6497

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 09:31	08/14/21 05:33	1	
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 09:31	08/14/21 05:33	1	
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 09:31	08/14/21 05:33	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 05:33	1	
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 09:31	08/14/21 05:33	1	
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 05:33	1	
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 05:33	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				08/13/21 09:31	08/14/21 05:33	1	
1,4-Difluorobenzene (Surr)	100		70 - 130				08/13/21 09:31	08/14/21 05:33	1	

Lab Sample ID: LCS 880-6497/1-A

Matrix: Solid

Analysis Batch: 6512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6497

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene			0.100	0.1026		mg/Kg		103	70 - 130	
Toluene			0.100	0.09222		mg/Kg		92	70 - 130	
Ethylbenzene			0.100	0.09607		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene			0.200	0.1945		mg/Kg		97	70 - 130	
o-Xylene			0.100	0.09889		mg/Kg		99	70 - 130	

	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	102		70 - 130							
1,4-Difluorobenzene (Surr)	108		70 - 130							

Lab Sample ID: LCSD 880-6497/2-A

Matrix: Solid

Analysis Batch: 6512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6497

			Spike	LCSD	LCSD				%Rec.		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene			0.100	0.1066		mg/Kg		107	70 - 130	4	35	
Toluene			0.100	0.09362		mg/Kg		94	70 - 130	2	35	
Ethylbenzene			0.100	0.09579		mg/Kg		96	70 - 130	0	35	
m-Xylene & p-Xylene			0.200	0.1941		mg/Kg		97	70 - 130	0	35	
o-Xylene			0.100	0.09837		mg/Kg		98	70 - 130	1	35	

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: LCSD 880-6497/2-A

Matrix: Solid

Analysis Batch: 6512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6497

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-1100-21 MSD

Matrix: Solid

Analysis Batch: 6512

Client Sample ID: SB-26-30

Prep Type: Total/NA

Prep Batch: 6497

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.000385	U	0.0994	0.07940		mg/Kg					
Toluene	<0.000456	U	0.0994	0.07435		mg/Kg					
Ethylbenzene	<0.000565	U	0.0994	0.08138		mg/Kg					
m-Xylene & p-Xylene	<0.00101	U	0.199	0.1666		mg/Kg					
o-Xylene	<0.000344	U	0.0994	0.08298		mg/Kg					

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1100-21 MS

Matrix: Solid

Analysis Batch: 6512

Client Sample ID: SB-26-30

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-6514/5-A

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/14/21 10:00	08/14/21 21:22	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/14/21 10:00	08/14/21 21:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/14/21 10:00	08/14/21 21:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/14/21 10:00	08/14/21 21:22	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/14/21 10:00	08/14/21 21:22	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/14/21 10:00	08/14/21 21:22	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/14/21 10:00	08/14/21 21:22	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	105		70 - 130	08/14/21 10:00	08/14/21 21:22	1			
1,4-Difluorobenzene (Surr)	94		70 - 130	08/14/21 10:00	08/14/21 21:22	1			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: LCS 880-6514/1-A

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09438		mg/Kg		94	70 - 130
Toluene	0.100	0.08689		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08358		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1664		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08354		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-6514/2-A

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6514

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09737		mg/Kg		97	70 - 130	3	35
Toluene	0.100	0.08836		mg/Kg		88	70 - 130	2	35
Ethylbenzene	0.100	0.08717		mg/Kg		87	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1735		mg/Kg		87	70 - 130	4	35
o-Xylene	0.100	0.08798		mg/Kg		88	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1100-81 MS

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: SB-21C-2

Prep Type: Total/NA

Prep Batch: 6514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F2 F1	0.0990	0.06479	F1	mg/Kg		65	70 - 130
Toluene	<0.00200	U F2 F1	0.0990	0.05746	F1	mg/Kg		58	70 - 130
Ethylbenzene	<0.00200	U F2 F1	0.0990	0.05508	F1	mg/Kg		56	70 - 130
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.198	0.1108	F1	mg/Kg		56	70 - 130
o-Xylene	<0.00200	U F2 F1	0.0990	0.05866	F1	mg/Kg		59	70 - 130

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

Lab Sample ID: 890-1100-81 MSD

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: SB-21C-2

Prep Type: Total/NA

Prep Batch: 6514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0994	0.02646	F2 F1	mg/Kg		27	70 - 130	84	35
Toluene	<0.00200	U F2 F1	0.0994	0.02819	F2 F1	mg/Kg		28	70 - 130	68	35
Ethylbenzene	<0.00200	U F2 F1	0.0994	0.02831	F2 F1	mg/Kg		28	70 - 130	64	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: 890-1100-81 MSD

Matrix: Solid

Analysis Batch: 6493

Client Sample ID: SB-21C-2

Prep Type: Total/NA

Prep Batch: 6514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.199	0.05651	F2 F1	mg/Kg		28	70 - 130	65	35
o-Xylene	<0.00200	U F2 F1	0.0994	0.02990	F2 F1	mg/Kg		30	70 - 130	65	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	94		70 - 130								
1,4-Difluorobenzene (Surr)	89		70 - 130								

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

Lab Sample ID: MB 880-6569/1-A

Matrix: Solid

Analysis Batch: 6570

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6569

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 21:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 21:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 21:23	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 21:23	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
1-Chlorooctane	88		70 - 130				08/14/21 09:48	08/14/21 21:23	1
o-Terphenyl	100		70 - 130				08/14/21 09:48	08/14/21 21:23	1

Lab Sample ID: LCS 880-6569/2-A

Matrix: Solid

Analysis Batch: 6570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6569

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	780.0		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	889.6		mg/Kg		89	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	81		70 - 130								
o-Terphenyl	87		70 - 130								

Lab Sample ID: LCSD 880-6569/3-A

Matrix: Solid

Analysis Batch: 6570

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6569

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	798.3		mg/Kg		80	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	906.3		mg/Kg		91	70 - 130	2	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: LCSD 880-6569/3-A

Matrix: Solid

Analysis Batch: 6570

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6569

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 890-1100-1 MS

Matrix: Solid

Analysis Batch: 6570

Client Sample ID: SB-33-2

Prep Type: Total/NA

Prep Batch: 6569

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	995	725.0		mg/Kg		73	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	774.1		mg/Kg		78	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	72		70 - 130						
o-Terphenyl	72		70 - 130						

Lab Sample ID: 890-1100-1 MSD

Matrix: Solid

Analysis Batch: 6570

Client Sample ID: SB-33-2

Prep Type: Total/NA

Prep Batch: 6569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	713.7		mg/Kg		72	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	803.1		mg/Kg		80	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	72		70 - 130								
o-Terphenyl	72		70 - 130								

Lab Sample ID: MB 880-6577/1-A

Matrix: Solid

Analysis Batch: 6580

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 11:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 11:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 11:49	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 11:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				08/14/21 11:51	08/15/21 11:49	1
o-Terphenyl	118		70 - 130				08/14/21 11:51	08/15/21 11:49	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: LCS 880-6577/2-A

Matrix: Solid

Analysis Batch: 6580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6577

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	825.7		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	851.0		mg/Kg		85	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
o-Terphenyl	95		70 - 130								

Lab Sample ID: LCSD 880-6577/3-A

Matrix: Solid

Analysis Batch: 6580

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6577

Top Bottom											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	839.5		mg/Kg		84	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	861.0		mg/Kg		86	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	97		70 - 130								

Lab Sample ID: 890-1100-21 MS

Matrix: Solid

Analysis Batch: 6580

Client Sample ID: SB-26-30

Prep Type: Total/NA

Prep Batch: 6577

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	1011		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)	15.1	J	995	875.9		mg/Kg		87	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	91		70 - 130								
o-Terphenyl	87		70 - 130								

Lab Sample ID: 890-1100-21 MSD

Matrix: Solid

Analysis Batch: 6580

Client Sample ID: SB-26-30

Prep Type: Total/NA

Prep Batch: 6577

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	983.7		mg/Kg		99	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	15.1	J	998	906.1		mg/Kg		89	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	93		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: 890-1100-21 MSD

Matrix: Solid

Analysis Batch: 6580

Client Sample ID: SB-26-30

Prep Type: Total/NA

Prep Batch: 6577

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	89		70 - 130

Lab Sample ID: MB 880-6578/1-A

Matrix: Solid

Analysis Batch: 6582

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6578

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 11:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 11:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 11:49	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 11:49	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier					
1-Chlorooctane	119		70 - 130	08/14/21 12:06	08/15/21 11:49	1
<i>o</i> -Terphenyl	138	S1+	70 - 130	08/14/21 12:06	08/15/21 11:49	1

Lab Sample ID: LCS 880-6578/2-A

Matrix: Solid

Analysis Batch: 6582

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	922.4		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	849.8		mg/Kg		85	70 - 130

Surrogate	LCS	LCS	Limits
%Recovery	Qualifier		
1-Chlorooctane	101		70 - 130
<i>o</i> -Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-6578/3-A

Matrix: Solid

Analysis Batch: 6582

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6578

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	993.9		mg/Kg		99	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	806.7		mg/Kg		81	70 - 130	5	20

Surrogate	LCSD	LCSD	Limits
%Recovery	Qualifier		
1-Chlorooctane	98		70 - 130
<i>o</i> -Terphenyl	103		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: 890-1100-42 MS

Matrix: Solid

Analysis Batch: 6582

Client Sample ID: SB-22-45

Prep Type: Total/NA

Prep Batch: 6578

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	995	991.7		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	886.1		mg/Kg		89	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	96		70 - 130						

Lab Sample ID: 890-1100-42 MSD

Matrix: Solid

Analysis Batch: 6582

Client Sample ID: SB-22-45

Prep Type: Total/NA

Prep Batch: 6578

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	987.0		mg/Kg		99	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	862.9		mg/Kg		86	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	95		70 - 130								

Lab Sample ID: MB 880-6579/1-A

Matrix: Solid

Analysis Batch: 6584

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 11:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 11:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 11:11	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 11:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/14/21 12:26	08/15/21 11:11	1
o-Terphenyl	107		70 - 130				08/14/21 12:26	08/15/21 11:11	1

Lab Sample ID: LCS 880-6579/2-A

Matrix: Solid

Analysis Batch: 6584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	873.3		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	980.8		mg/Kg		98	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: LCS 880-6579/2-A

Matrix: Solid

Analysis Batch: 6584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6579

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-6579/3-A

Matrix: Solid

Analysis Batch: 6584

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6579

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	801.5		mg/Kg		80	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	937.4		mg/Kg		94	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-1100-61 MS

Matrix: Solid

Analysis Batch: 6584

Client Sample ID: SB-28-4

Prep Type: Total/NA

Prep Batch: 6579

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	995	716.2		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	840.1		mg/Kg		84	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 890-1100-61 MSD

Matrix: Solid

Analysis Batch: 6584

Client Sample ID: SB-28-4

Prep Type: Total/NA

Prep Batch: 6579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	792.9		mg/Kg		79	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	846.4		mg/Kg		85	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	72		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: MB 880-6589/1-A

Matrix: Solid

Analysis Batch: 6591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6589

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.82	J	50.0	15.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
Total TPH	16.82	J	50.0	15.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	08/16/21 08:50	08/16/21 11:24	1
o-Terphenyl	118		70 - 130	08/16/21 08:50	08/16/21 11:24	1

Lab Sample ID: LCS 880-6589/2-A

Matrix: Solid

Analysis Batch: 6591

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	814.9		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	832.6		mg/Kg		83	70 - 130

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

Lab Sample ID: LCSD 880-6589/3-A

Matrix: Solid

Analysis Batch: 6591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6589

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	902.4		mg/Kg		90	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	833.9		mg/Kg		83	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-1100-81 MS

Matrix: Solid

Analysis Batch: 6591

Client Sample ID: SB-21C-2

Prep Type: Total/NA

Prep Batch: 6589

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	995	1032		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	843.5		mg/Kg		85	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Lab Sample ID: 890-1100-81 MS

Matrix: Solid

Analysis Batch: 6591

Client Sample ID: SB-21C-2

Prep Type: Total/NA

Prep Batch: 6589

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-1100-81 MSD

Matrix: Solid

Analysis Batch: 6591

Client Sample ID: SB-21C-2

Prep Type: Total/NA

Prep Batch: 6589

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	981.7		mg/Kg		98	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	844.9		mg/Kg		85	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	88		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6529/1-A

Matrix: Solid

Analysis Batch: 6545

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/13/21 19:50	1

Lab Sample ID: LCS 880-6529/2-A

Matrix: Solid

Analysis Batch: 6545

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	270.6		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-6529/3-A

Matrix: Solid

Analysis Batch: 6545

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	264.5		mg/Kg		106	90 - 110	2	20

Lab Sample ID: 890-1100-35 MS

Matrix: Solid

Analysis Batch: 6545

Client Sample ID: SB-29-10

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	630	F1	253	806.5	F1	mg/Kg		70	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1100-35 MSD

Matrix: Solid

Analysis Batch: 6545

Client Sample ID: SB-29-10

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	630	F1	253	789.7	F1	mg/Kg		63	90 - 110	2	20

Lab Sample ID: MB 880-6546/1-A

Matrix: Solid

Analysis Batch: 6557

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/13/21 23:56	1

Lab Sample ID: LCS 880-6546/2-A

Matrix: Solid

Analysis Batch: 6557

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	258.0		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-6546/3-A

Matrix: Solid

Analysis Batch: 6557

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-6530/1-A

Matrix: Solid

Analysis Batch: 6559

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/14/21 06:29	1

Lab Sample ID: LCS 880-6530/2-A

Matrix: Solid

Analysis Batch: 6559

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.6		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-6530/3-A

Matrix: Solid

Analysis Batch: 6559

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	259.3		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-6534/1-A

Matrix: Solid

Analysis Batch: 6619

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/16/21 16:13	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-6534/2-A

Matrix: Solid

Analysis Batch: 6619

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	252.9		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-6534/3-A

Matrix: Solid

Analysis Batch: 6619

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	252.9		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1100-3 MS

Matrix: Solid

Analysis Batch: 6619

Client Sample ID: SB-33-20

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2440		1250	3689		mg/Kg		100	90 - 110

Lab Sample ID: 890-1100-3 MSD

Matrix: Solid

Analysis Batch: 6619

Client Sample ID: SB-33-20

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2440		1250	3684		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-6533/1-A

Matrix: Solid

Analysis Batch: 6621

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/16/21 19:29	1

Lab Sample ID: LCS 880-6533/2-A

Matrix: Solid

Analysis Batch: 6621

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	258.1		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-6533/3-A

Matrix: Solid

Analysis Batch: 6621

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.2		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-1100-13 MS

Matrix: Solid

Analysis Batch: 6621

Client Sample ID: SB-30-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	81.9		248	330.7		mg/Kg		101	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1100-13 MSD

Matrix: Solid

Analysis Batch: 6621

Client Sample ID: SB-30-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	81.9		248	331.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1100-23 MS

Matrix: Solid

Analysis Batch: 6621

Client Sample ID: SB-25-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	33.6		248	284.5		mg/Kg		101	90 - 110		

Lab Sample ID: 890-1100-23 MSD

Matrix: Solid

Analysis Batch: 6621

Client Sample ID: SB-25-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	33.6		248	284.6		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-6531/1-A

Matrix: Solid

Analysis Batch: 6622

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/16/21 22:45	1

Lab Sample ID: LCS 880-6531/2-A

Matrix: Solid

Analysis Batch: 6622

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	258.5		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-6531/3-A

Matrix: Solid

Analysis Batch: 6622

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-1100-46 MS

Matrix: Solid

Analysis Batch: 6622

Client Sample ID: SB-19-20

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1250		250	1444	4	mg/Kg		79	90 - 110		

Lab Sample ID: 890-1100-46 MSD

Matrix: Solid

Analysis Batch: 6622

Client Sample ID: SB-19-20

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1250		250	1462	4	mg/Kg		86	90 - 110	1	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1100-56 MS

Matrix: Solid

Analysis Batch: 6622

Client Sample ID: SB-21A-15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7080	F1	2480	9294	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-1100-56 MSD

Matrix: Solid

Analysis Batch: 6622

Client Sample ID: SB-21A-15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7080	F1	2480	9310		mg/Kg		90	90 - 110	0	20

Lab Sample ID: MB 880-6532/1-A

Matrix: Solid

Analysis Batch: 6623

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/17/21 02:02	1

Lab Sample ID: LCS 880-6532/2-A

Matrix: Solid

Analysis Batch: 6623

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	258.4		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-6532/3-A

Matrix: Solid

Analysis Batch: 6623

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	259.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-1100-66 MS

Matrix: Solid

Analysis Batch: 6623

Client Sample ID: SB-40A-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	22.1		249	253.1		mg/Kg		93	90 - 110

Lab Sample ID: 890-1100-66 MSD

Matrix: Solid

Analysis Batch: 6623

Client Sample ID: SB-40A-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22.1		249	253.7		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-1100-76 MS

Matrix: Solid

Analysis Batch: 6623

Client Sample ID: SB-21B-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	21.9		251	265.2		mg/Kg		97	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1100-76 MSD

Matrix: Solid

Analysis Batch: 6623

Client Sample ID: SB-21B-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	21.9		251	266.2		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC VOA

Prep Batch: 6455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6455/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6457/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6478/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1	SB-33-2	Total/NA	Solid	5035	
890-1100-2	SB-33-4	Total/NA	Solid	5035	
890-1100-3	SB-33-20	Total/NA	Solid	5035	
890-1100-4	SB-33-55	Total/NA	Solid	5035	
890-1100-5	SB-33-60	Total/NA	Solid	5035	
890-1100-6	SB-33-65	Total/NA	Solid	5035	
890-1100-7	SB-31-2	Total/NA	Solid	5035	
890-1100-8	SB-31-4	Total/NA	Solid	5035	
890-1100-9	SB-31-15	Total/NA	Solid	5035	
890-1100-10	SB-31-25	Total/NA	Solid	5035	
890-1100-11	SB-31-30	Total/NA	Solid	5035	
890-1100-12	SB-30-2	Total/NA	Solid	5035	
890-1100-13	SB-30-4	Total/NA	Solid	5035	
890-1100-14	SB-30-8	Total/NA	Solid	5035	
890-1100-15	SB-30-25	Total/NA	Solid	5035	
890-1100-16	SB-30-30	Total/NA	Solid	5035	
890-1100-17	SB-26-2	Total/NA	Solid	5035	
890-1100-18	SB-26-4	Total/NA	Solid	5035	
890-1100-19	SB-26-15	Total/NA	Solid	5035	
890-1100-20	SB-26-25	Total/NA	Solid	5035	
MB 880-6479/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6479/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6479/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1100-1 MSD	SB-33-2	Total/NA	Solid	5035	

Prep Batch: 6492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-41	SB-22-30	Total/NA	Solid	5035	
890-1100-42	SB-22-45	Total/NA	Solid	5035	
890-1100-43	SB-22-50	Total/NA	Solid	5035	
890-1100-44	SB-19-2	Total/NA	Solid	5035	
890-1100-45	SB-19-4	Total/NA	Solid	5035	
890-1100-46	SB-19-20	Total/NA	Solid	5035	
890-1100-47	SB-19-45	Total/NA	Solid	5035	
890-1100-48	SB-19-50	Total/NA	Solid	5035	
890-1100-49	SB-18-2	Total/NA	Solid	5035	
890-1100-50	SB-18-4	Total/NA	Solid	5035	
890-1100-51	SB-18-30	Total/NA	Solid	5035	
890-1100-52	SB-18-55	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC VOA (Continued)

Prep Batch: 6492 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-53	SB-18-60	Total/NA	Solid	5035	
890-1100-54	SB-21A-2	Total/NA	Solid	5035	
890-1100-55	SB-21A-4	Total/NA	Solid	5035	
890-1100-56	SB-21A-15	Total/NA	Solid	5035	
890-1100-57	SB-21A-35	Total/NA	Solid	5035	
890-1100-58	SB-21A-55	Total/NA	Solid	5035	
890-1100-59	SB-21A-60	Total/NA	Solid	5035	
890-1100-60	SB-28-2	Total/NA	Solid	5035	
MB 880-6492/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6492/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6492/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1100-41 MS	SB-22-30	Total/NA	Solid	5035	
890-1100-41 MSD	SB-22-30	Total/NA	Solid	5035	

Analysis Batch: 6493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-41	SB-22-30	Total/NA	Solid	8021B	6492
890-1100-42	SB-22-45	Total/NA	Solid	8021B	6492
890-1100-43	SB-22-50	Total/NA	Solid	8021B	6492
890-1100-44	SB-19-2	Total/NA	Solid	8021B	6492
890-1100-45	SB-19-4	Total/NA	Solid	8021B	6492
890-1100-46	SB-19-20	Total/NA	Solid	8021B	6492
890-1100-47	SB-19-45	Total/NA	Solid	8021B	6492
890-1100-48	SB-19-50	Total/NA	Solid	8021B	6492
890-1100-49	SB-18-2	Total/NA	Solid	8021B	6492
890-1100-50	SB-18-4	Total/NA	Solid	8021B	6492
890-1100-51	SB-18-30	Total/NA	Solid	8021B	6492
890-1100-52	SB-18-55	Total/NA	Solid	8021B	6492
890-1100-53	SB-18-60	Total/NA	Solid	8021B	6492
890-1100-54	SB-21A-2	Total/NA	Solid	8021B	6492
890-1100-55	SB-21A-4	Total/NA	Solid	8021B	6492
890-1100-56	SB-21A-15	Total/NA	Solid	8021B	6492
890-1100-57	SB-21A-35	Total/NA	Solid	8021B	6492
890-1100-58	SB-21A-55	Total/NA	Solid	8021B	6492
890-1100-59	SB-21A-60	Total/NA	Solid	8021B	6492
890-1100-60	SB-28-2	Total/NA	Solid	8021B	6492
890-1100-81	SB-21C-2	Total/NA	Solid	8021B	6514
890-1100-82	SB-21C-4	Total/NA	Solid	8021B	6514
890-1100-83	SB-21C-6	Total/NA	Solid	8021B	6514
890-1100-84	SB-21C-15	Total/NA	Solid	8021B	6514
890-1100-85	SB-21C-20	Total/NA	Solid	8021B	6514
MB 880-6478/5-A	Method Blank	Total/NA	Solid	8021B	6478
MB 880-6492/5-A	Method Blank	Total/NA	Solid	8021B	6492
MB 880-6514/5-A	Method Blank	Total/NA	Solid	8021B	6514
LCS 880-6492/1-A	Lab Control Sample	Total/NA	Solid	8021B	6492
LCS 880-6514/1-A	Lab Control Sample	Total/NA	Solid	8021B	6514
LCSD 880-6492/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6492
LCSD 880-6514/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6514
890-1100-41 MS	SB-22-30	Total/NA	Solid	8021B	6492
890-1100-41 MSD	SB-22-30	Total/NA	Solid	8021B	6492
890-1100-81 MS	SB-21C-2	Total/NA	Solid	8021B	6514

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC VOA (Continued)

Analysis Batch: 6493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-81 MSD	SB-21C-2	Total/NA	Solid	8021B	6514

Prep Batch: 6494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-61	SB-28-4	Total/NA	Solid	5035	
890-1100-62	SB-28-20	Total/NA	Solid	5035	
890-1100-63	SB-28-25	Total/NA	Solid	5035	
890-1100-64	SB-28-40	Total/NA	Solid	5035	
890-1100-65	SB-28-45	Total/NA	Solid	5035	
890-1100-66	SB-40A-2	Total/NA	Solid	5035	
890-1100-67	SB-40A-4	Total/NA	Solid	5035	
890-1100-68	SB-40A-10	Total/NA	Solid	5035	
890-1100-69	SB-40A-20	Total/NA	Solid	5035	
890-1100-70	SB-40A-25	Total/NA	Solid	5035	
890-1100-71	SB-27A-2	Total/NA	Solid	5035	
890-1100-72	SB-27A-4	Total/NA	Solid	5035	
890-1100-73	SB-27A-10	Total/NA	Solid	5035	
890-1100-74	SB-27A-15	Total/NA	Solid	5035	
890-1100-75	SB-27A-20	Total/NA	Solid	5035	
890-1100-76	SB-21B-2	Total/NA	Solid	5035	
890-1100-77	SB-21B-4	Total/NA	Solid	5035	
890-1100-78	SB-21B-6	Total/NA	Solid	5035	
890-1100-79	SB-21B-15	Total/NA	Solid	5035	
890-1100-80	SB-21B-20	Total/NA	Solid	5035	
MB 880-6494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1100-61 MSD	SB-28-4	Total/NA	Solid	5035	

Analysis Batch: 6495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1	SB-33-2	Total/NA	Solid	8021B	6479
890-1100-2	SB-33-4	Total/NA	Solid	8021B	6479
890-1100-3	SB-33-20	Total/NA	Solid	8021B	6479
890-1100-4	SB-33-55	Total/NA	Solid	8021B	6479
890-1100-5	SB-33-60	Total/NA	Solid	8021B	6479
890-1100-6	SB-33-65	Total/NA	Solid	8021B	6479
890-1100-7	SB-31-2	Total/NA	Solid	8021B	6479
890-1100-8	SB-31-4	Total/NA	Solid	8021B	6479
890-1100-9	SB-31-15	Total/NA	Solid	8021B	6479
890-1100-10	SB-31-25	Total/NA	Solid	8021B	6479
890-1100-11	SB-31-30	Total/NA	Solid	8021B	6479
890-1100-12	SB-30-2	Total/NA	Solid	8021B	6479
890-1100-13	SB-30-4	Total/NA	Solid	8021B	6479
890-1100-14	SB-30-8	Total/NA	Solid	8021B	6479
890-1100-15	SB-30-25	Total/NA	Solid	8021B	6479
890-1100-16	SB-30-30	Total/NA	Solid	8021B	6479
890-1100-17	SB-26-2	Total/NA	Solid	8021B	6479
890-1100-18	SB-26-4	Total/NA	Solid	8021B	6479
890-1100-19	SB-26-15	Total/NA	Solid	8021B	6479
890-1100-20	SB-26-25	Total/NA	Solid	8021B	6479

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC VOA (Continued)

Analysis Batch: 6495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-61	SB-28-4	Total/NA	Solid	8021B	6494
890-1100-62	SB-28-20	Total/NA	Solid	8021B	6494
890-1100-63	SB-28-25	Total/NA	Solid	8021B	6494
890-1100-64	SB-28-40	Total/NA	Solid	8021B	6494
890-1100-65	SB-28-45	Total/NA	Solid	8021B	6494
890-1100-66	SB-40A-2	Total/NA	Solid	8021B	6494
890-1100-67	SB-40A-4	Total/NA	Solid	8021B	6494
890-1100-68	SB-40A-10	Total/NA	Solid	8021B	6494
890-1100-69	SB-40A-20	Total/NA	Solid	8021B	6494
890-1100-70	SB-40A-25	Total/NA	Solid	8021B	6494
890-1100-71	SB-27A-2	Total/NA	Solid	8021B	6494
890-1100-72	SB-27A-4	Total/NA	Solid	8021B	6494
890-1100-73	SB-27A-10	Total/NA	Solid	8021B	6494
890-1100-74	SB-27A-15	Total/NA	Solid	8021B	6494
890-1100-75	SB-27A-20	Total/NA	Solid	8021B	6494
890-1100-76	SB-21B-2	Total/NA	Solid	8021B	6494
890-1100-77	SB-21B-4	Total/NA	Solid	8021B	6494
890-1100-78	SB-21B-6	Total/NA	Solid	8021B	6494
890-1100-79	SB-21B-15	Total/NA	Solid	8021B	6494
890-1100-80	SB-21B-20	Total/NA	Solid	8021B	6494
MB 880-6457/5-A	Method Blank	Total/NA	Solid	8021B	6457
MB 880-6479/5-A	Method Blank	Total/NA	Solid	8021B	6479
MB 880-6494/5-A	Method Blank	Total/NA	Solid	8021B	6494
LCS 880-6479/1-A	Lab Control Sample	Total/NA	Solid	8021B	6479
LCS 880-6494/1-A	Lab Control Sample	Total/NA	Solid	8021B	6494
LCSD 880-6479/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6479
LCSD 880-6494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6494
890-1100-1 MS	SB-33-2	Total/NA	Solid	8021B	
890-1100-1 MSD	SB-33-2	Total/NA	Solid	8021B	6479
890-1100-61 MS	SB-28-4	Total/NA	Solid	8021B	
890-1100-61 MSD	SB-28-4	Total/NA	Solid	8021B	6494

Prep Batch: 6497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-21	SB-26-30	Total/NA	Solid	5035	
890-1100-22	SB-25-2	Total/NA	Solid	5035	
890-1100-23	SB-25-4	Total/NA	Solid	5035	
890-1100-24	SB-25-15	Total/NA	Solid	5035	
890-1100-25	SB-25-30	Total/NA	Solid	5035	
890-1100-26	SB-25-40	Total/NA	Solid	5035	
890-1100-27	SB-25-45	Total/NA	Solid	5035	
890-1100-28	SB-24-2	Total/NA	Solid	5035	
890-1100-29	SB-24-4	Total/NA	Solid	5035	
890-1100-30	SB-24-15	Total/NA	Solid	5035	
890-1100-31	SB-24-25	Total/NA	Solid	5035	
890-1100-32	SB-24-30	Total/NA	Solid	5035	
890-1100-33	SB-29-2	Total/NA	Solid	5035	
890-1100-34	SB-29-4	Total/NA	Solid	5035	
890-1100-35	SB-29-10	Total/NA	Solid	5035	
890-1100-36	SB-29-15	Total/NA	Solid	5035	
890-1100-37	SB-29-25	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC VOA (Continued)

Prep Batch: 6497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-38	SB-22-2	Total/NA	Solid	5035	
890-1100-39	SB-22-4	Total/NA	Solid	5035	
890-1100-40	SB-22-15	Total/NA	Solid	5035	
MB 880-6497/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6497/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6497/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1100-21 MSD	SB-26-30	Total/NA	Solid	5035	

Analysis Batch: 6512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-21	SB-26-30	Total/NA	Solid	8021B	6497
890-1100-22	SB-25-2	Total/NA	Solid	8021B	6497
890-1100-23	SB-25-4	Total/NA	Solid	8021B	6497
890-1100-24	SB-25-15	Total/NA	Solid	8021B	6497
890-1100-25	SB-25-30	Total/NA	Solid	8021B	6497
890-1100-26	SB-25-40	Total/NA	Solid	8021B	6497
890-1100-27	SB-25-45	Total/NA	Solid	8021B	6497
890-1100-28	SB-24-2	Total/NA	Solid	8021B	6497
890-1100-29	SB-24-4	Total/NA	Solid	8021B	6497
890-1100-30	SB-24-15	Total/NA	Solid	8021B	6497
890-1100-31	SB-24-25	Total/NA	Solid	8021B	6497
890-1100-32	SB-24-30	Total/NA	Solid	8021B	6497
890-1100-33	SB-29-2	Total/NA	Solid	8021B	6497
890-1100-34	SB-29-4	Total/NA	Solid	8021B	6497
890-1100-35	SB-29-10	Total/NA	Solid	8021B	6497
890-1100-36	SB-29-15	Total/NA	Solid	8021B	6497
890-1100-37	SB-29-25	Total/NA	Solid	8021B	6497
890-1100-38	SB-22-2	Total/NA	Solid	8021B	6497
890-1100-39	SB-22-4	Total/NA	Solid	8021B	6497
890-1100-40	SB-22-15	Total/NA	Solid	8021B	6497
MB 880-6455/5-A	Method Blank	Total/NA	Solid	8021B	6455
MB 880-6497/5-A	Method Blank	Total/NA	Solid	8021B	6497
LCS 880-6497/1-A	Lab Control Sample	Total/NA	Solid	8021B	6497
LCSD 880-6497/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6497
890-1100-21 MS	SB-26-30	Total/NA	Solid	8021B	
890-1100-21 MSD	SB-26-30	Total/NA	Solid	8021B	6497

Prep Batch: 6514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-81	SB-21C-2	Total/NA	Solid	5035	
890-1100-82	SB-21C-4	Total/NA	Solid	5035	
890-1100-83	SB-21C-6	Total/NA	Solid	5035	
890-1100-84	SB-21C-15	Total/NA	Solid	5035	
890-1100-85	SB-21C-20	Total/NA	Solid	5035	
MB 880-6514/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6514/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6514/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1100-81 MS	SB-21C-2	Total/NA	Solid	5035	
890-1100-81 MSD	SB-21C-2	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC Semi VOA

Prep Batch: 6569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1	SB-33-2	Total/NA	Solid	8015NM Prep	
890-1100-2	SB-33-4	Total/NA	Solid	8015NM Prep	
890-1100-3	SB-33-20	Total/NA	Solid	8015NM Prep	
890-1100-4	SB-33-55	Total/NA	Solid	8015NM Prep	
890-1100-5	SB-33-60	Total/NA	Solid	8015NM Prep	
890-1100-6	SB-33-65	Total/NA	Solid	8015NM Prep	
890-1100-7	SB-31-2	Total/NA	Solid	8015NM Prep	
890-1100-8	SB-31-4	Total/NA	Solid	8015NM Prep	
890-1100-9	SB-31-15	Total/NA	Solid	8015NM Prep	
890-1100-10	SB-31-25	Total/NA	Solid	8015NM Prep	
890-1100-11	SB-31-30	Total/NA	Solid	8015NM Prep	
890-1100-12	SB-30-2	Total/NA	Solid	8015NM Prep	
890-1100-13	SB-30-4	Total/NA	Solid	8015NM Prep	
890-1100-14	SB-30-8	Total/NA	Solid	8015NM Prep	
890-1100-15	SB-30-25	Total/NA	Solid	8015NM Prep	
890-1100-16	SB-30-30	Total/NA	Solid	8015NM Prep	
890-1100-17	SB-26-2	Total/NA	Solid	8015NM Prep	
890-1100-18	SB-26-4	Total/NA	Solid	8015NM Prep	
890-1100-19	SB-26-15	Total/NA	Solid	8015NM Prep	
890-1100-20	SB-26-25	Total/NA	Solid	8015NM Prep	
MB 880-6569/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6569/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-1 MS	SB-33-2	Total/NA	Solid	8015NM Prep	
890-1100-1 MSD	SB-33-2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1	SB-33-2	Total/NA	Solid	8015B NM	6569
890-1100-2	SB-33-4	Total/NA	Solid	8015B NM	6569
890-1100-3	SB-33-20	Total/NA	Solid	8015B NM	6569
890-1100-4	SB-33-55	Total/NA	Solid	8015B NM	6569
890-1100-5	SB-33-60	Total/NA	Solid	8015B NM	6569
890-1100-7	SB-31-2	Total/NA	Solid	8015B NM	6569
890-1100-8	SB-31-4	Total/NA	Solid	8015B NM	6569
890-1100-9	SB-31-15	Total/NA	Solid	8015B NM	6569
890-1100-10	SB-31-25	Total/NA	Solid	8015B NM	6569
890-1100-11	SB-31-30	Total/NA	Solid	8015B NM	6569
890-1100-12	SB-30-2	Total/NA	Solid	8015B NM	6569
890-1100-13	SB-30-4	Total/NA	Solid	8015B NM	6569
890-1100-14	SB-30-8	Total/NA	Solid	8015B NM	6569
890-1100-15	SB-30-25	Total/NA	Solid	8015B NM	6569
890-1100-16	SB-30-30	Total/NA	Solid	8015B NM	6569
890-1100-17	SB-26-2	Total/NA	Solid	8015B NM	6569
890-1100-18	SB-26-4	Total/NA	Solid	8015B NM	6569
890-1100-19	SB-26-15	Total/NA	Solid	8015B NM	6569
890-1100-20	SB-26-25	Total/NA	Solid	8015B NM	6569
MB 880-6569/1-A	Method Blank	Total/NA	Solid	8015B NM	6569
LCS 880-6569/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6569
LCSD 880-6569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6569
890-1100-1 MS	SB-33-2	Total/NA	Solid	8015B NM	6569

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 6570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1 MSD	SB-33-2	Total/NA	Solid	8015B NM	6569

Prep Batch: 6577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-21	SB-26-30	Total/NA	Solid	8015NM Prep	
890-1100-22	SB-25-2	Total/NA	Solid	8015NM Prep	
890-1100-23	SB-25-4	Total/NA	Solid	8015NM Prep	
890-1100-24	SB-25-15	Total/NA	Solid	8015NM Prep	
890-1100-25	SB-25-30	Total/NA	Solid	8015NM Prep	
890-1100-26	SB-25-40	Total/NA	Solid	8015NM Prep	
890-1100-27	SB-25-45	Total/NA	Solid	8015NM Prep	
890-1100-28	SB-24-2	Total/NA	Solid	8015NM Prep	
890-1100-29	SB-24-4	Total/NA	Solid	8015NM Prep	
890-1100-30	SB-24-15	Total/NA	Solid	8015NM Prep	
890-1100-31	SB-24-25	Total/NA	Solid	8015NM Prep	
890-1100-32	SB-24-30	Total/NA	Solid	8015NM Prep	
890-1100-33	SB-29-2	Total/NA	Solid	8015NM Prep	
890-1100-34	SB-29-4	Total/NA	Solid	8015NM Prep	
890-1100-35	SB-29-10	Total/NA	Solid	8015NM Prep	
890-1100-36	SB-29-15	Total/NA	Solid	8015NM Prep	
890-1100-37	SB-29-25	Total/NA	Solid	8015NM Prep	
890-1100-38	SB-22-2	Total/NA	Solid	8015NM Prep	
890-1100-39	SB-22-4	Total/NA	Solid	8015NM Prep	
890-1100-40	SB-22-15	Total/NA	Solid	8015NM Prep	
MB 880-6577/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6577/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-21 MS	SB-26-30	Total/NA	Solid	8015NM Prep	
890-1100-21 MSD	SB-26-30	Total/NA	Solid	8015NM Prep	

Prep Batch: 6578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-41	SB-22-30	Total/NA	Solid	8015NM Prep	
890-1100-42	SB-22-45	Total/NA	Solid	8015NM Prep	
890-1100-43	SB-22-50	Total/NA	Solid	8015NM Prep	
890-1100-44	SB-19-2	Total/NA	Solid	8015NM Prep	
890-1100-45	SB-19-4	Total/NA	Solid	8015NM Prep	
890-1100-46	SB-19-20	Total/NA	Solid	8015NM Prep	
890-1100-47	SB-19-45	Total/NA	Solid	8015NM Prep	
890-1100-48	SB-19-50	Total/NA	Solid	8015NM Prep	
890-1100-49	SB-18-2	Total/NA	Solid	8015NM Prep	
890-1100-50	SB-18-4	Total/NA	Solid	8015NM Prep	
890-1100-51	SB-18-30	Total/NA	Solid	8015NM Prep	
890-1100-52	SB-18-55	Total/NA	Solid	8015NM Prep	
890-1100-53	SB-18-60	Total/NA	Solid	8015NM Prep	
890-1100-54	SB-21A-2	Total/NA	Solid	8015NM Prep	
890-1100-55	SB-21A-4	Total/NA	Solid	8015NM Prep	
890-1100-56	SB-21A-15	Total/NA	Solid	8015NM Prep	
890-1100-57	SB-21A-35	Total/NA	Solid	8015NM Prep	
890-1100-58	SB-21A-55	Total/NA	Solid	8015NM Prep	
890-1100-59	SB-21A-60	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC Semi VOA (Continued)

Prep Batch: 6578 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-60	SB-28-2	Total/NA	Solid	8015NM Prep	
MB 880-6578/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6578/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6578/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-42 MS	SB-22-45	Total/NA	Solid	8015NM Prep	
890-1100-42 MSD	SB-22-45	Total/NA	Solid	8015NM Prep	

Prep Batch: 6579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-61	SB-28-4	Total/NA	Solid	8015NM Prep	
890-1100-62	SB-28-20	Total/NA	Solid	8015NM Prep	
890-1100-63	SB-28-25	Total/NA	Solid	8015NM Prep	
890-1100-64	SB-28-40	Total/NA	Solid	8015NM Prep	
890-1100-65	SB-28-45	Total/NA	Solid	8015NM Prep	
890-1100-66	SB-40A-2	Total/NA	Solid	8015NM Prep	
890-1100-67	SB-40A-4	Total/NA	Solid	8015NM Prep	
890-1100-68	SB-40A-10	Total/NA	Solid	8015NM Prep	
890-1100-69	SB-40A-20	Total/NA	Solid	8015NM Prep	
890-1100-70	SB-40A-25	Total/NA	Solid	8015NM Prep	
890-1100-71	SB-27A-2	Total/NA	Solid	8015NM Prep	
890-1100-72	SB-27A-4	Total/NA	Solid	8015NM Prep	
890-1100-73	SB-27A-10	Total/NA	Solid	8015NM Prep	
890-1100-74	SB-27A-15	Total/NA	Solid	8015NM Prep	
890-1100-75	SB-27A-20	Total/NA	Solid	8015NM Prep	
890-1100-76	SB-21B-2	Total/NA	Solid	8015NM Prep	
890-1100-77	SB-21B-4	Total/NA	Solid	8015NM Prep	
890-1100-78	SB-21B-6	Total/NA	Solid	8015NM Prep	
890-1100-79	SB-21B-15	Total/NA	Solid	8015NM Prep	
890-1100-80	SB-21B-20	Total/NA	Solid	8015NM Prep	
MB 880-6579/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6579/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6579/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-61 MS	SB-28-4	Total/NA	Solid	8015NM Prep	
890-1100-61 MSD	SB-28-4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-21	SB-26-30	Total/NA	Solid	8015B NM	6577
890-1100-22	SB-25-2	Total/NA	Solid	8015B NM	6577
890-1100-23	SB-25-4	Total/NA	Solid	8015B NM	6577
890-1100-24	SB-25-15	Total/NA	Solid	8015B NM	6577
890-1100-25	SB-25-30	Total/NA	Solid	8015B NM	6577
890-1100-26	SB-25-40	Total/NA	Solid	8015B NM	6577
890-1100-27	SB-25-45	Total/NA	Solid	8015B NM	6577
890-1100-28	SB-24-2	Total/NA	Solid	8015B NM	6577
890-1100-29	SB-24-4	Total/NA	Solid	8015B NM	6577
890-1100-30	SB-24-15	Total/NA	Solid	8015B NM	6577
890-1100-31	SB-24-25	Total/NA	Solid	8015B NM	6577
890-1100-32	SB-24-30	Total/NA	Solid	8015B NM	6577
890-1100-33	SB-29-2	Total/NA	Solid	8015B NM	6577
890-1100-34	SB-29-4	Total/NA	Solid	8015B NM	6577

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 6580 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-35	SB-29-10	Total/NA	Solid	8015B NM	6577
890-1100-36	SB-29-15	Total/NA	Solid	8015B NM	6577
890-1100-37	SB-29-25	Total/NA	Solid	8015B NM	6577
890-1100-38	SB-22-2	Total/NA	Solid	8015B NM	6577
890-1100-39	SB-22-4	Total/NA	Solid	8015B NM	6577
890-1100-40	SB-22-15	Total/NA	Solid	8015B NM	6577
MB 880-6577/1-A	Method Blank	Total/NA	Solid	8015B NM	6577
LCS 880-6577/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6577
LCSD 880-6577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6577
890-1100-21 MS	SB-26-30	Total/NA	Solid	8015B NM	6577
890-1100-21 MSD	SB-26-30	Total/NA	Solid	8015B NM	6577

Analysis Batch: 6582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-41	SB-22-30	Total/NA	Solid	8015B NM	6578
890-1100-42	SB-22-45	Total/NA	Solid	8015B NM	6578
890-1100-43	SB-22-50	Total/NA	Solid	8015B NM	6578
890-1100-44	SB-19-2	Total/NA	Solid	8015B NM	6578
890-1100-45	SB-19-4	Total/NA	Solid	8015B NM	6578
890-1100-46	SB-19-20	Total/NA	Solid	8015B NM	6578
890-1100-47	SB-19-45	Total/NA	Solid	8015B NM	6578
890-1100-48	SB-19-50	Total/NA	Solid	8015B NM	6578
890-1100-49	SB-18-2	Total/NA	Solid	8015B NM	6578
890-1100-50	SB-18-4	Total/NA	Solid	8015B NM	6578
890-1100-51	SB-18-30	Total/NA	Solid	8015B NM	6578
890-1100-52	SB-18-55	Total/NA	Solid	8015B NM	6578
890-1100-53	SB-18-60	Total/NA	Solid	8015B NM	6578
890-1100-54	SB-21A-2	Total/NA	Solid	8015B NM	6578
890-1100-55	SB-21A-4	Total/NA	Solid	8015B NM	6578
890-1100-56	SB-21A-15	Total/NA	Solid	8015B NM	6578
890-1100-57	SB-21A-35	Total/NA	Solid	8015B NM	6578
890-1100-58	SB-21A-55	Total/NA	Solid	8015B NM	6578
890-1100-59	SB-21A-60	Total/NA	Solid	8015B NM	6578
890-1100-60	SB-28-2	Total/NA	Solid	8015B NM	6578
MB 880-6578/1-A	Method Blank	Total/NA	Solid	8015B NM	6578
LCS 880-6578/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6578
LCSD 880-6578/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6578
890-1100-42 MS	SB-22-45	Total/NA	Solid	8015B NM	6578
890-1100-42 MSD	SB-22-45	Total/NA	Solid	8015B NM	6578

Analysis Batch: 6584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-61	SB-28-4	Total/NA	Solid	8015B NM	6579
890-1100-62	SB-28-20	Total/NA	Solid	8015B NM	6579
890-1100-63	SB-28-25	Total/NA	Solid	8015B NM	6579
890-1100-64	SB-28-40	Total/NA	Solid	8015B NM	6579
890-1100-65	SB-28-45	Total/NA	Solid	8015B NM	6579
890-1100-66	SB-40A-2	Total/NA	Solid	8015B NM	6579
890-1100-67	SB-40A-4	Total/NA	Solid	8015B NM	6579
890-1100-68	SB-40A-10	Total/NA	Solid	8015B NM	6579
890-1100-69	SB-40A-20	Total/NA	Solid	8015B NM	6579

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 6584 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-70	SB-40A-25	Total/NA	Solid	8015B NM	6579
890-1100-71	SB-27A-2	Total/NA	Solid	8015B NM	6579
890-1100-72	SB-27A-4	Total/NA	Solid	8015B NM	6579
890-1100-73	SB-27A-10	Total/NA	Solid	8015B NM	6579
890-1100-74	SB-27A-15	Total/NA	Solid	8015B NM	6579
890-1100-75	SB-27A-20	Total/NA	Solid	8015B NM	6579
890-1100-76	SB-21B-2	Total/NA	Solid	8015B NM	6579
890-1100-77	SB-21B-4	Total/NA	Solid	8015B NM	6579
890-1100-78	SB-21B-6	Total/NA	Solid	8015B NM	6579
890-1100-79	SB-21B-15	Total/NA	Solid	8015B NM	6579
890-1100-80	SB-21B-20	Total/NA	Solid	8015B NM	6579
MB 880-6579/1-A	Method Blank	Total/NA	Solid	8015B NM	6579
LCS 880-6579/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6579
LCSD 880-6579/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6579
890-1100-61 MS	SB-28-4	Total/NA	Solid	8015B NM	6579
890-1100-61 MSD	SB-28-4	Total/NA	Solid	8015B NM	6579

Prep Batch: 6589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-81	SB-21C-2	Total/NA	Solid	8015NM Prep	
890-1100-82	SB-21C-4	Total/NA	Solid	8015NM Prep	
890-1100-83	SB-21C-6	Total/NA	Solid	8015NM Prep	
890-1100-84	SB-21C-15	Total/NA	Solid	8015NM Prep	
890-1100-85	SB-21C-20	Total/NA	Solid	8015NM Prep	
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-81 MS	SB-21C-2	Total/NA	Solid	8015NM Prep	
890-1100-81 MSD	SB-21C-2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-6	SB-33-65	Total/NA	Solid	8015B NM	6569
890-1100-81	SB-21C-2	Total/NA	Solid	8015B NM	6589
890-1100-82	SB-21C-4	Total/NA	Solid	8015B NM	6589
890-1100-83	SB-21C-6	Total/NA	Solid	8015B NM	6589
890-1100-84	SB-21C-15	Total/NA	Solid	8015B NM	6589
890-1100-85	SB-21C-20	Total/NA	Solid	8015B NM	6589
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015B NM	6589
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6589
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6589
890-1100-81 MS	SB-21C-2	Total/NA	Solid	8015B NM	6589
890-1100-81 MSD	SB-21C-2	Total/NA	Solid	8015B NM	6589

HPLC/IC

Leach Batch: 6529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-33	SB-29-2	Soluble	Solid	DI Leach	
890-1100-34	SB-29-4	Soluble	Solid	DI Leach	
890-1100-35	SB-29-10	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

HPLC/IC (Continued)

Leach Batch: 6529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-36	SB-29-15	Soluble	Solid	DI Leach	
890-1100-37	SB-29-25	Soluble	Solid	DI Leach	
890-1100-38	SB-22-2	Soluble	Solid	DI Leach	
890-1100-39	SB-22-4	Soluble	Solid	DI Leach	
890-1100-40	SB-22-15	Soluble	Solid	DI Leach	
890-1100-41	SB-22-30	Soluble	Solid	DI Leach	
890-1100-42	SB-22-45	Soluble	Solid	DI Leach	
MB 880-6529/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6529/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6529/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1100-35 MS	SB-29-10	Soluble	Solid	DI Leach	
890-1100-35 MSD	SB-29-10	Soluble	Solid	DI Leach	

Leach Batch: 6530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1	SB-33-2	Soluble	Solid	DI Leach	
890-1100-2	SB-33-4	Soluble	Solid	DI Leach	
MB 880-6530/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6530/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6530/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 6531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-46	SB-19-20	Soluble	Solid	DI Leach	
890-1100-47	SB-19-45	Soluble	Solid	DI Leach	
890-1100-48	SB-19-50	Soluble	Solid	DI Leach	
890-1100-49	SB-18-2	Soluble	Solid	DI Leach	
890-1100-50	SB-18-4	Soluble	Solid	DI Leach	
890-1100-51	SB-18-30	Soluble	Solid	DI Leach	
890-1100-52	SB-18-55	Soluble	Solid	DI Leach	
890-1100-53	SB-18-60	Soluble	Solid	DI Leach	
890-1100-54	SB-21A-2	Soluble	Solid	DI Leach	
890-1100-55	SB-21A-4	Soluble	Solid	DI Leach	
890-1100-56	SB-21A-15	Soluble	Solid	DI Leach	
890-1100-57	SB-21A-35	Soluble	Solid	DI Leach	
890-1100-58	SB-21A-55	Soluble	Solid	DI Leach	
890-1100-59	SB-21A-60	Soluble	Solid	DI Leach	
890-1100-60	SB-28-2	Soluble	Solid	DI Leach	
890-1100-61	SB-28-4	Soluble	Solid	DI Leach	
890-1100-62	SB-28-20	Soluble	Solid	DI Leach	
890-1100-63	SB-28-25	Soluble	Solid	DI Leach	
890-1100-64	SB-28-40	Soluble	Solid	DI Leach	
890-1100-65	SB-28-45	Soluble	Solid	DI Leach	
MB 880-6531/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6531/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6531/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1100-46 MS	SB-19-20	Soluble	Solid	DI Leach	
890-1100-46 MSD	SB-19-20	Soluble	Solid	DI Leach	
890-1100-56 MS	SB-21A-15	Soluble	Solid	DI Leach	
890-1100-56 MSD	SB-21A-15	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

HPLC/IC

Leach Batch: 6532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-66	SB-40A-2	Soluble	Solid	DI Leach	
890-1100-67	SB-40A-4	Soluble	Solid	DI Leach	
890-1100-68	SB-40A-10	Soluble	Solid	DI Leach	
890-1100-69	SB-40A-20	Soluble	Solid	DI Leach	
890-1100-70	SB-40A-25	Soluble	Solid	DI Leach	
890-1100-71	SB-27A-2	Soluble	Solid	DI Leach	
890-1100-72	SB-27A-4	Soluble	Solid	DI Leach	
890-1100-73	SB-27A-10	Soluble	Solid	DI Leach	
890-1100-74	SB-27A-15	Soluble	Solid	DI Leach	
890-1100-75	SB-27A-20	Soluble	Solid	DI Leach	
890-1100-76	SB-21B-2	Soluble	Solid	DI Leach	
890-1100-77	SB-21B-4	Soluble	Solid	DI Leach	
890-1100-78	SB-21B-6	Soluble	Solid	DI Leach	
890-1100-79	SB-21B-15	Soluble	Solid	DI Leach	
890-1100-80	SB-21B-20	Soluble	Solid	DI Leach	
890-1100-81	SB-21C-2	Soluble	Solid	DI Leach	
890-1100-82	SB-21C-4	Soluble	Solid	DI Leach	
890-1100-83	SB-21C-6	Soluble	Solid	DI Leach	
890-1100-84	SB-21C-15	Soluble	Solid	DI Leach	
890-1100-85	SB-21C-20	Soluble	Solid	DI Leach	
MB 880-6532/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6532/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6532/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1100-66 MS	SB-40A-2	Soluble	Solid	DI Leach	
890-1100-66 MSD	SB-40A-2	Soluble	Solid	DI Leach	
890-1100-76 MS	SB-21B-2	Soluble	Solid	DI Leach	
890-1100-76 MSD	SB-21B-2	Soluble	Solid	DI Leach	

Leach Batch: 6533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-13	SB-30-4	Soluble	Solid	DI Leach	
890-1100-14	SB-30-8	Soluble	Solid	DI Leach	
890-1100-15	SB-30-25	Soluble	Solid	DI Leach	
890-1100-16	SB-30-30	Soluble	Solid	DI Leach	
890-1100-17	SB-26-2	Soluble	Solid	DI Leach	
890-1100-18	SB-26-4	Soluble	Solid	DI Leach	
890-1100-19	SB-26-15	Soluble	Solid	DI Leach	
890-1100-20	SB-26-25	Soluble	Solid	DI Leach	
890-1100-21	SB-26-30	Soluble	Solid	DI Leach	
890-1100-22	SB-25-2	Soluble	Solid	DI Leach	
890-1100-23	SB-25-4	Soluble	Solid	DI Leach	
890-1100-24	SB-25-15	Soluble	Solid	DI Leach	
890-1100-25	SB-25-30	Soluble	Solid	DI Leach	
890-1100-26	SB-25-40	Soluble	Solid	DI Leach	
890-1100-27	SB-25-45	Soluble	Solid	DI Leach	
890-1100-28	SB-24-2	Soluble	Solid	DI Leach	
890-1100-29	SB-24-4	Soluble	Solid	DI Leach	
890-1100-30	SB-24-15	Soluble	Solid	DI Leach	
890-1100-31	SB-24-25	Soluble	Solid	DI Leach	
890-1100-32	SB-24-30	Soluble	Solid	DI Leach	
MB 880-6533/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

HPLC/IC (Continued)

Leach Batch: 6533 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-6533/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6533/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1100-13 MS	SB-30-4	Soluble	Solid	DI Leach	
890-1100-13 MSD	SB-30-4	Soluble	Solid	DI Leach	
890-1100-23 MS	SB-25-4	Soluble	Solid	DI Leach	
890-1100-23 MSD	SB-25-4	Soluble	Solid	DI Leach	

Leach Batch: 6534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-3	SB-33-20	Soluble	Solid	DI Leach	
890-1100-4	SB-33-55	Soluble	Solid	DI Leach	
890-1100-5	SB-33-60	Soluble	Solid	DI Leach	
890-1100-6	SB-33-65	Soluble	Solid	DI Leach	
890-1100-7	SB-31-2	Soluble	Solid	DI Leach	
890-1100-8	SB-31-4	Soluble	Solid	DI Leach	
890-1100-9	SB-31-15	Soluble	Solid	DI Leach	
890-1100-10	SB-31-25	Soluble	Solid	DI Leach	
890-1100-11	SB-31-30	Soluble	Solid	DI Leach	
890-1100-12	SB-30-2	Soluble	Solid	DI Leach	
MB 880-6534/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6534/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6534/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1100-3 MS	SB-33-20	Soluble	Solid	DI Leach	
890-1100-3 MSD	SB-33-20	Soluble	Solid	DI Leach	

Analysis Batch: 6545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-33	SB-29-2	Soluble	Solid	300.0	6529
890-1100-34	SB-29-4	Soluble	Solid	300.0	6529
890-1100-35	SB-29-10	Soluble	Solid	300.0	6529
890-1100-36	SB-29-15	Soluble	Solid	300.0	6529
890-1100-37	SB-29-25	Soluble	Solid	300.0	6529
890-1100-38	SB-22-2	Soluble	Solid	300.0	6529
890-1100-39	SB-22-4	Soluble	Solid	300.0	6529
890-1100-40	SB-22-15	Soluble	Solid	300.0	6529
890-1100-41	SB-22-30	Soluble	Solid	300.0	6529
890-1100-42	SB-22-45	Soluble	Solid	300.0	6529
MB 880-6529/1-A	Method Blank	Soluble	Solid	300.0	6529
LCS 880-6529/2-A	Lab Control Sample	Soluble	Solid	300.0	6529
LCSD 880-6529/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6529
890-1100-35 MS	SB-29-10	Soluble	Solid	300.0	6529
890-1100-35 MSD	SB-29-10	Soluble	Solid	300.0	6529

Leach Batch: 6546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-43	SB-22-50	Soluble	Solid	DI Leach	
890-1100-44	SB-19-2	Soluble	Solid	DI Leach	
890-1100-45	SB-19-4	Soluble	Solid	DI Leach	
MB 880-6546/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6546/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6546/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

HPLC/IC

Analysis Batch: 6557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-43	SB-22-50	Soluble	Solid	300.0	6546
890-1100-44	SB-19-2	Soluble	Solid	300.0	6546
890-1100-45	SB-19-4	Soluble	Solid	300.0	6546
MB 880-6546/1-A	Method Blank	Soluble	Solid	300.0	6546
LCS 880-6546/2-A	Lab Control Sample	Soluble	Solid	300.0	6546
LCSD 880-6546/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6546

Analysis Batch: 6559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1	SB-33-2	Soluble	Solid	300.0	6530
890-1100-2	SB-33-4	Soluble	Solid	300.0	6530
MB 880-6530/1-A	Method Blank	Soluble	Solid	300.0	6530
LCS 880-6530/2-A	Lab Control Sample	Soluble	Solid	300.0	6530
LCSD 880-6530/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6530

Analysis Batch: 6619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-3	SB-33-20	Soluble	Solid	300.0	6534
890-1100-4	SB-33-55	Soluble	Solid	300.0	6534
890-1100-5	SB-33-60	Soluble	Solid	300.0	6534
890-1100-6	SB-33-65	Soluble	Solid	300.0	6534
890-1100-7	SB-31-2	Soluble	Solid	300.0	6534
890-1100-8	SB-31-4	Soluble	Solid	300.0	6534
890-1100-9	SB-31-15	Soluble	Solid	300.0	6534
890-1100-10	SB-31-25	Soluble	Solid	300.0	6534
890-1100-11	SB-31-30	Soluble	Solid	300.0	6534
890-1100-12	SB-30-2	Soluble	Solid	300.0	6534
MB 880-6534/1-A	Method Blank	Soluble	Solid	300.0	6534
LCS 880-6534/2-A	Lab Control Sample	Soluble	Solid	300.0	6534
LCSD 880-6534/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6534
890-1100-3 MS	SB-33-20	Soluble	Solid	300.0	6534
890-1100-3 MSD	SB-33-20	Soluble	Solid	300.0	6534

Analysis Batch: 6621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-13	SB-30-4	Soluble	Solid	300.0	6533
890-1100-14	SB-30-8	Soluble	Solid	300.0	6533
890-1100-15	SB-30-25	Soluble	Solid	300.0	6533
890-1100-16	SB-30-30	Soluble	Solid	300.0	6533
890-1100-17	SB-26-2	Soluble	Solid	300.0	6533
890-1100-18	SB-26-4	Soluble	Solid	300.0	6533
890-1100-19	SB-26-15	Soluble	Solid	300.0	6533
890-1100-20	SB-26-25	Soluble	Solid	300.0	6533
890-1100-21	SB-26-30	Soluble	Solid	300.0	6533
890-1100-22	SB-25-2	Soluble	Solid	300.0	6533
890-1100-23	SB-25-4	Soluble	Solid	300.0	6533
890-1100-24	SB-25-15	Soluble	Solid	300.0	6533
890-1100-25	SB-25-30	Soluble	Solid	300.0	6533
890-1100-26	SB-25-40	Soluble	Solid	300.0	6533
890-1100-27	SB-25-45	Soluble	Solid	300.0	6533
890-1100-28	SB-24-2	Soluble	Solid	300.0	6533

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 6621 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-29	SB-24-4	Soluble	Solid	300.0	6533
890-1100-30	SB-24-15	Soluble	Solid	300.0	6533
890-1100-31	SB-24-25	Soluble	Solid	300.0	6533
890-1100-32	SB-24-30	Soluble	Solid	300.0	6533
MB 880-6533/1-A	Method Blank	Soluble	Solid	300.0	6533
LCS 880-6533/2-A	Lab Control Sample	Soluble	Solid	300.0	6533
LCSD 880-6533/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6533
890-1100-13 MS	SB-30-4	Soluble	Solid	300.0	6533
890-1100-13 MSD	SB-30-4	Soluble	Solid	300.0	6533
890-1100-23 MS	SB-25-4	Soluble	Solid	300.0	6533
890-1100-23 MSD	SB-25-4	Soluble	Solid	300.0	6533

Analysis Batch: 6622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-46	SB-19-20	Soluble	Solid	300.0	6531
890-1100-47	SB-19-45	Soluble	Solid	300.0	6531
890-1100-48	SB-19-50	Soluble	Solid	300.0	6531
890-1100-49	SB-18-2	Soluble	Solid	300.0	6531
890-1100-50	SB-18-4	Soluble	Solid	300.0	6531
890-1100-51	SB-18-30	Soluble	Solid	300.0	6531
890-1100-52	SB-18-55	Soluble	Solid	300.0	6531
890-1100-53	SB-18-60	Soluble	Solid	300.0	6531
890-1100-54	SB-21A-2	Soluble	Solid	300.0	6531
890-1100-55	SB-21A-4	Soluble	Solid	300.0	6531
890-1100-56	SB-21A-15	Soluble	Solid	300.0	6531
890-1100-57	SB-21A-35	Soluble	Solid	300.0	6531
890-1100-58	SB-21A-55	Soluble	Solid	300.0	6531
890-1100-59	SB-21A-60	Soluble	Solid	300.0	6531
890-1100-60	SB-28-2	Soluble	Solid	300.0	6531
890-1100-61	SB-28-4	Soluble	Solid	300.0	6531
890-1100-62	SB-28-20	Soluble	Solid	300.0	6531
890-1100-63	SB-28-25	Soluble	Solid	300.0	6531
890-1100-64	SB-28-40	Soluble	Solid	300.0	6531
890-1100-65	SB-28-45	Soluble	Solid	300.0	6531
MB 880-6531/1-A	Method Blank	Soluble	Solid	300.0	6531
LCS 880-6531/2-A	Lab Control Sample	Soluble	Solid	300.0	6531
LCSD 880-6531/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6531
890-1100-46 MS	SB-19-20	Soluble	Solid	300.0	6531
890-1100-46 MSD	SB-19-20	Soluble	Solid	300.0	6531
890-1100-56 MS	SB-21A-15	Soluble	Solid	300.0	6531
890-1100-56 MSD	SB-21A-15	Soluble	Solid	300.0	6531

Analysis Batch: 6623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-66	SB-40A-2	Soluble	Solid	300.0	6532
890-1100-67	SB-40A-4	Soluble	Solid	300.0	6532
890-1100-68	SB-40A-10	Soluble	Solid	300.0	6532
890-1100-69	SB-40A-20	Soluble	Solid	300.0	6532
890-1100-70	SB-40A-25	Soluble	Solid	300.0	6532
890-1100-71	SB-27A-2	Soluble	Solid	300.0	6532
890-1100-72	SB-27A-4	Soluble	Solid	300.0	6532

Eurofins Xenco, Carlsbad

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 6623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-73	SB-27A-10	Soluble	Solid	300.0	6532
890-1100-74	SB-27A-15	Soluble	Solid	300.0	6532
890-1100-75	SB-27A-20	Soluble	Solid	300.0	6532
890-1100-76	SB-21B-2	Soluble	Solid	300.0	6532
890-1100-77	SB-21B-4	Soluble	Solid	300.0	6532
890-1100-78	SB-21B-6	Soluble	Solid	300.0	6532
890-1100-79	SB-21B-15	Soluble	Solid	300.0	6532
890-1100-80	SB-21B-20	Soluble	Solid	300.0	6532
890-1100-81	SB-21C-2	Soluble	Solid	300.0	6532
890-1100-82	SB-21C-4	Soluble	Solid	300.0	6532
890-1100-83	SB-21C-6	Soluble	Solid	300.0	6532
890-1100-84	SB-21C-15	Soluble	Solid	300.0	6532
890-1100-85	SB-21C-20	Soluble	Solid	300.0	6532
MB 880-6532/1-A	Method Blank	Soluble	Solid	300.0	6532
LCS 880-6532/2-A	Lab Control Sample	Soluble	Solid	300.0	6532
LCSD 880-6532/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6532
890-1100-66 MS	SB-40A-2	Soluble	Solid	300.0	6532
890-1100-66 MSD	SB-40A-2	Soluble	Solid	300.0	6532
890-1100-76 MS	SB-21B-2	Soluble	Solid	300.0	6532
890-1100-76 MSD	SB-21B-2	Soluble	Solid	300.0	6532

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-33-2

Lab Sample ID: 890-1100-1

Date Collected: 08/08/21 17:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/13/21 23:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/14/21 22:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6530	08/13/21 14:48	CH	XEN MID
Soluble	Analysis	300.0		1			6559	08/14/21 09:11	CH	XEN MID

Client Sample ID: SB-33-4

Lab Sample ID: 890-1100-2

Date Collected: 08/08/21 17:25

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 00:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/14/21 23:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6530	08/13/21 14:48	CH	XEN MID
Soluble	Analysis	300.0		1			6559	08/14/21 09:17	CH	XEN MID

Client Sample ID: SB-33-20

Lab Sample ID: 890-1100-3

Date Collected: 08/08/21 17:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 00:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/14/21 23:49	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		5			6619	08/16/21 17:48	CH	XEN MID

Client Sample ID: SB-33-55

Lab Sample ID: 890-1100-4

Date Collected: 08/09/21 11:30

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 00:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 00:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:05	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-33-60

Lab Sample ID: 890-1100-5

Date Collected: 08/09/21 12:00

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 01:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 00:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:11	CH	XEN MID

Client Sample ID: SB-33-65

Lab Sample ID: 890-1100-6

Date Collected: 08/09/21 12:15

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 01:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 15:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:28	CH	XEN MID

Client Sample ID: SB-31-2

Lab Sample ID: 890-1100-7

Date Collected: 08/09/21 13:55

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 01:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 01:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:33	CH	XEN MID

Client Sample ID: SB-31-4

Lab Sample ID: 890-1100-8

Date Collected: 08/09/21 14:00

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 02:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 01:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:39	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-31-15

Lab Sample ID: 890-1100-9

Date Collected: 08/09/21 14:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 02:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 01:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		10			6619	08/16/21 18:44	CH	XEN MID

Client Sample ID: SB-31-25

Lab Sample ID: 890-1100-10

Date Collected: 08/09/21 14:30

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 02:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 02:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:50	CH	XEN MID

Client Sample ID: SB-31-30

Lab Sample ID: 890-1100-11

Date Collected: 08/09/21 14:35

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 04:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 02:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:56	CH	XEN MID

Client Sample ID: SB-30-2

Lab Sample ID: 890-1100-12

Date Collected: 08/09/21 14:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 04:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 03:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 19:01	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-30-4

Lab Sample ID: 890-1100-13

Date Collected: 08/09/21 14:55

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 05:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 03:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 19:46	CH	XEN MID

Client Sample ID: SB-30-8

Lab Sample ID: 890-1100-14

Date Collected: 08/09/21 15:05

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 05:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 03:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		5			6621	08/16/21 20:03	CH	XEN MID

Client Sample ID: SB-30-25

Lab Sample ID: 890-1100-15

Date Collected: 08/09/21 15:25

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 05:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 04:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:09	CH	XEN MID

Client Sample ID: SB-30-30

Lab Sample ID: 890-1100-16

Date Collected: 08/09/21 15:30

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 06:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 04:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:14	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-26-2

Lab Sample ID: 890-1100-17

Date Collected: 08/10/21 11:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 06:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 04:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:20	CH	XEN MID

Client Sample ID: SB-26-4

Lab Sample ID: 890-1100-18

Date Collected: 08/10/21 12:00

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 06:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 05:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:37	CH	XEN MID

Client Sample ID: SB-26-15

Lab Sample ID: 890-1100-19

Date Collected: 08/10/21 12:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 07:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 05:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		5			6621	08/16/21 20:42	CH	XEN MID

Client Sample ID: SB-26-25

Lab Sample ID: 890-1100-20

Date Collected: 08/10/21 12:35

Matrix: Solid

Date Received: 08/12/21 13:46

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	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 07:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 06:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:48	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-26-30

Lab Sample ID: 890-1100-21

Date Collected: 08/10/21 12:45

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 06:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 12:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:53	CH	XEN MID

Client Sample ID: SB-25-2

Lab Sample ID: 890-1100-22

Date Collected: 08/10/21 13:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 06:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 13:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:59	CH	XEN MID

Client Sample ID: SB-25-4

Lab Sample ID: 890-1100-23

Date Collected: 08/10/21 13:55

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 06:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 14:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 21:05	CH	XEN MID

Client Sample ID: SB-25-15

Lab Sample ID: 890-1100-24

Date Collected: 08/10/21 14:10

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 07:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 14:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 21:21	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-25-30

Lab Sample ID: 890-1100-25

Date Collected: 08/10/21 14:25

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 07:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 14:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		5			6621	08/16/21 21:27	CH	XEN MID

Client Sample ID: SB-25-40

Lab Sample ID: 890-1100-26

Date Collected: 08/10/21 14:35

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 07:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 15:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 21:44	CH	XEN MID

Client Sample ID: SB-25-45

Lab Sample ID: 890-1100-27

Date Collected: 08/10/21 14:55

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 08:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 15:38	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 21:49	CH	XEN MID

Client Sample ID: SB-24-2

Lab Sample ID: 890-1100-28

Date Collected: 08/10/21 15:05

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 08:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 15:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 21:55	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-24-4

Lab Sample ID: 890-1100-29

Date Collected: 08/10/21 15:10

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 08:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 16:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 22:01	CH	XEN MID

Client Sample ID: SB-24-15

Lab Sample ID: 890-1100-30

Date Collected: 08/10/21 15:30

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 09:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 16:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		5			6621	08/16/21 22:06	CH	XEN MID

Client Sample ID: SB-24-25

Lab Sample ID: 890-1100-31

Date Collected: 08/10/21 15:40

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 10:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 22:12	CH	XEN MID

Client Sample ID: SB-24-30

Lab Sample ID: 890-1100-32

Date Collected: 08/10/21 15:45

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 11:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 22:17	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-29-2

Lab Sample ID: 890-1100-33

Date Collected: 08/10/21 16:00

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 11:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 18:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:05	CH	XEN MID

Client Sample ID: SB-29-4

Lab Sample ID: 890-1100-34

Date Collected: 08/10/21 16:05

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 11:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 18:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:10	CH	XEN MID

Client Sample ID: SB-29-10

Lab Sample ID: 890-1100-35

Date Collected: 08/10/21 16:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 12:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:15	CH	XEN MID

Client Sample ID: SB-29-15

Lab Sample ID: 890-1100-36

Date Collected: 08/10/21 16:25

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 12:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:29	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-29-25

Lab Sample ID: 890-1100-37

Date Collected: 08/10/21 16:35

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 12:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:34	CH	XEN MID

Client Sample ID: SB-22-2

Lab Sample ID: 890-1100-38

Date Collected: 08/11/21 08:45

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 13:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 19:54	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:49	CH	XEN MID

Client Sample ID: SB-22-4

Lab Sample ID: 890-1100-39

Date Collected: 08/11/21 08:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 13:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 20:15	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:54	CH	XEN MID

Client Sample ID: SB-22-15

Lab Sample ID: 890-1100-40

Date Collected: 08/11/21 09:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 13:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 20:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		5			6545	08/13/21 21:59	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-22-30

Lab Sample ID: 890-1100-41

Date Collected: 08/11/21 11:40

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 10:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 13:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		5			6545	08/13/21 22:04	CH	XEN MID

Client Sample ID: SB-22-45

Lab Sample ID: 890-1100-42

Date Collected: 08/11/21 12:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 11:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 12:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 22:09	CH	XEN MID

Client Sample ID: SB-22-50

Lab Sample ID: 890-1100-43

Date Collected: 08/11/21 12:35

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 11:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 14:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6546	08/13/21 20:38	SC	XEN MID
Soluble	Analysis	300.0		1			6557	08/14/21 02:33	CH	XEN MID

Client Sample ID: SB-19-2

Lab Sample ID: 890-1100-44

Date Collected: 08/11/21 12:45

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 11:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 14:36	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6546	08/13/21 20:38	SC	XEN MID
Soluble	Analysis	300.0		1			6557	08/14/21 02:39	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-19-4

Lab Sample ID: 890-1100-45

Date Collected: 08/11/21 12:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 12:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 14:57	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6546	08/13/21 20:38	SC	XEN MID
Soluble	Analysis	300.0		1			6557	08/14/21 02:44	CH	XEN MID

Client Sample ID: SB-19-20

Lab Sample ID: 890-1100-46

Date Collected: 08/11/21 13:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 12:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 15:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/16/21 23:02	CH	XEN MID

Client Sample ID: SB-19-45

Lab Sample ID: 890-1100-47

Date Collected: 08/11/21 14:05

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 12:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 15:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/16/21 23:19	CH	XEN MID

Client Sample ID: SB-19-50

Lab Sample ID: 890-1100-48

Date Collected: 08/11/21 14:15

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 13:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 15:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/16/21 23:25	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-18-2

Lab Sample ID: 890-1100-49

Date Collected: 08/11/21 14:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 13:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 16:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/16/21 23:30	CH	XEN MID

Client Sample ID: SB-18-4

Lab Sample ID: 890-1100-50

Date Collected: 08/11/21 14:25

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 13:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 16:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/16/21 23:36	CH	XEN MID

Client Sample ID: SB-18-30

Lab Sample ID: 890-1100-51

Date Collected: 08/11/21 15:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 15:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		10			6622	08/16/21 23:53	CH	XEN MID

Client Sample ID: SB-18-55

Lab Sample ID: 890-1100-52

Date Collected: 08/11/21 16:25

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 15:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/16/21 23:58	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-18-60

Lab Sample ID: 890-1100-53

Date Collected: 08/11/21 16:40

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 15:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 18:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 00:04	CH	XEN MID

Client Sample ID: SB-21A-2

Lab Sample ID: 890-1100-54

Date Collected: 08/11/21 16:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 16:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 18:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 00:10	CH	XEN MID

Client Sample ID: SB-21A-4

Lab Sample ID: 890-1100-55

Date Collected: 08/11/21 16:55

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 16:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 00:15	CH	XEN MID

Client Sample ID: SB-21A-15

Lab Sample ID: 890-1100-56

Date Collected: 08/11/21 17:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 16:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		10			6622	08/17/21 00:21	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21A-35

Lab Sample ID: 890-1100-57

Date Collected: 08/11/21 17:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 17:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		10			6622	08/17/21 00:38	CH	XEN MID

Client Sample ID: SB-21A-55

Lab Sample ID: 890-1100-58

Date Collected: 08/11/21 18:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 17:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 19:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 00:43	CH	XEN MID

Client Sample ID: SB-21A-60

Lab Sample ID: 890-1100-59

Date Collected: 08/11/21 19:00

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 18:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 20:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 01:00	CH	XEN MID

Client Sample ID: SB-28-2

Lab Sample ID: 890-1100-60

Date Collected: 08/10/21 10:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 18:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 20:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 01:06	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-28-4

Lab Sample ID: 890-1100-61

Date Collected: 08/10/21 10:25

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 13:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 12:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 01:11	CH	XEN MID

Client Sample ID: SB-28-20

Lab Sample ID: 890-1100-62

Date Collected: 08/10/21 10:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 14:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 13:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		5			6622	08/17/21 01:17	CH	XEN MID

Client Sample ID: SB-28-25

Lab Sample ID: 890-1100-63

Date Collected: 08/10/21 10:55

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 14:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 13:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		5			6622	08/17/21 01:22	CH	XEN MID

Client Sample ID: SB-28-40

Lab Sample ID: 890-1100-64

Date Collected: 08/10/21 11:30

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 14:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 14:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 01:28	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-28-45

Lab Sample ID: 890-1100-65

Date Collected: 08/10/21 11:45

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 15:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 14:22	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 01:34	CH	XEN MID

Client Sample ID: SB-40A-2

Lab Sample ID: 890-1100-66

Date Collected: 08/12/21 08:05

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 15:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 14:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 02:18	CH	XEN MID

Client Sample ID: SB-40A-4

Lab Sample ID: 890-1100-67

Date Collected: 08/12/21 08:10

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 15:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 15:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 08:18	CH	XEN MID

Client Sample ID: SB-40A-10

Lab Sample ID: 890-1100-68

Date Collected: 08/12/21 08:40

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 16:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 15:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 08:23	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-40A-20

Lab Sample ID: 890-1100-69

Date Collected: 08/12/21 08:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 16:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 15:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 08:29	CH	XEN MID

Client Sample ID: SB-40A-25

Lab Sample ID: 890-1100-70

Date Collected: 08/12/21 08:55

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 16:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 16:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 08:35	CH	XEN MID

Client Sample ID: SB-27A-2

Lab Sample ID: 890-1100-71

Date Collected: 08/12/21 09:10

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 18:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 16:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 08:51	CH	XEN MID

Client Sample ID: SB-27A-4

Lab Sample ID: 890-1100-72

Date Collected: 08/12/21 09:15

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 18:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 17:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 08:57	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-27A-10

Lab Sample ID: 890-1100-73

Date Collected: 08/12/21 09:40

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 18:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 17:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 09:03	CH	XEN MID

Client Sample ID: SB-27A-15

Lab Sample ID: 890-1100-74

Date Collected: 08/12/21 09:45

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 19:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 17:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 09:08	CH	XEN MID

Client Sample ID: SB-27A-20

Lab Sample ID: 890-1100-75

Date Collected: 08/12/21 09:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 19:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 18:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 09:14	CH	XEN MID

Client Sample ID: SB-21B-2

Lab Sample ID: 890-1100-76

Date Collected: 08/12/21 10:00

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 20:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 18:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 09:19	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21B-4

Lab Sample ID: 890-1100-77

Date Collected: 08/12/21 10:05

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 20:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 19:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 09:36	CH	XEN MID

Client Sample ID: SB-21B-6

Lab Sample ID: 890-1100-78

Date Collected: 08/12/21 10:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 20:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 19:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		5			6623	08/17/21 09:42	CH	XEN MID

Client Sample ID: SB-21B-15

Lab Sample ID: 890-1100-79

Date Collected: 08/12/21 10:35

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 21:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 19:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 09:59	CH	XEN MID

Client Sample ID: SB-21B-20

Lab Sample ID: 890-1100-80

Date Collected: 08/12/21 10:40

Matrix: Solid

Date Received: 08/12/21 13:46

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	6494	08/13/21 08:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 21:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 20:04	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 10:04	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21C-2

Lab Sample ID: 890-1100-81

Date Collected: 08/12/21 11:20

Matrix: Solid

Date Received: 08/12/21 13:46

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	6514	08/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 21:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 13:15	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 10:10	CH	XEN MID

Client Sample ID: SB-21C-4

Lab Sample ID: 890-1100-82

Date Collected: 08/12/21 11:25

Matrix: Solid

Date Received: 08/12/21 13:46

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	6514	08/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 22:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 14:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 10:16	CH	XEN MID

Client Sample ID: SB-21C-6

Lab Sample ID: 890-1100-83

Date Collected: 08/12/21 11:30

Matrix: Solid

Date Received: 08/12/21 13:46

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	6514	08/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 22:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 14:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 10:21	CH	XEN MID

Client Sample ID: SB-21C-15

Lab Sample ID: 890-1100-84

Date Collected: 08/12/21 11:45

Matrix: Solid

Date Received: 08/12/21 13:46

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	6514	08/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 22:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 14:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 10:27	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21C-20

Lab Sample ID: 890-1100-85

Date Collected: 08/12/21 11:50

Matrix: Solid

Date Received: 08/12/21 13:46

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	6514	08/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 23:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 15:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 10:32	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1100-1	SB-33-2	Solid	08/08/21 17:20	08/12/21 13:46	- 2
890-1100-2	SB-33-4	Solid	08/08/21 17:25	08/12/21 13:46	- 4
890-1100-3	SB-33-20	Solid	08/08/21 17:50	08/12/21 13:46	- 20
890-1100-4	SB-33-55	Solid	08/09/21 11:30	08/12/21 13:46	- 55
890-1100-5	SB-33-60	Solid	08/09/21 12:00	08/12/21 13:46	- 60
890-1100-6	SB-33-65	Solid	08/09/21 12:15	08/12/21 13:46	- 65
890-1100-7	SB-31-2	Solid	08/09/21 13:55	08/12/21 13:46	- 2
890-1100-8	SB-31-4	Solid	08/09/21 14:00	08/12/21 13:46	- 4
890-1100-9	SB-31-15	Solid	08/09/21 14:20	08/12/21 13:46	- 15
890-1100-10	SB-31-25	Solid	08/09/21 14:30	08/12/21 13:46	- 25
890-1100-11	SB-31-30	Solid	08/09/21 14:35	08/12/21 13:46	- 30
890-1100-12	SB-30-2	Solid	08/09/21 14:50	08/12/21 13:46	- 2
890-1100-13	SB-30-4	Solid	08/09/21 14:55	08/12/21 13:46	- 4
890-1100-14	SB-30-8	Solid	08/09/21 15:05	08/12/21 13:46	- 8
890-1100-15	SB-30-25	Solid	08/09/21 15:25	08/12/21 13:46	- 25
890-1100-16	SB-30-30	Solid	08/09/21 15:30	08/12/21 13:46	- 30
890-1100-17	SB-26-2	Solid	08/10/21 11:50	08/12/21 13:46	- 2
890-1100-18	SB-26-4	Solid	08/10/21 12:00	08/12/21 13:46	- 4
890-1100-19	SB-26-15	Solid	08/10/21 12:20	08/12/21 13:46	- 15
890-1100-20	SB-26-25	Solid	08/10/21 12:35	08/12/21 13:46	- 25
890-1100-21	SB-26-30	Solid	08/10/21 12:45	08/12/21 13:46	- 30
890-1100-22	SB-25-2	Solid	08/10/21 13:50	08/12/21 13:46	- 2
890-1100-23	SB-25-4	Solid	08/10/21 13:55	08/12/21 13:46	- 4
890-1100-24	SB-25-15	Solid	08/10/21 14:10	08/12/21 13:46	- 15
890-1100-25	SB-25-30	Solid	08/10/21 14:25	08/12/21 13:46	- 30
890-1100-26	SB-25-40	Solid	08/10/21 14:35	08/12/21 13:46	- 40
890-1100-27	SB-25-45	Solid	08/10/21 14:55	08/12/21 13:46	- 45
890-1100-28	SB-24-2	Solid	08/10/21 15:05	08/12/21 13:46	- 2
890-1100-29	SB-24-4	Solid	08/10/21 15:10	08/12/21 13:46	- 4
890-1100-30	SB-24-15	Solid	08/10/21 15:30	08/12/21 13:46	- 15
890-1100-31	SB-24-25	Solid	08/10/21 15:40	08/12/21 13:46	- 25
890-1100-32	SB-24-30	Solid	08/10/21 15:45	08/12/21 13:46	- 30
890-1100-33	SB-29-2	Solid	08/10/21 16:00	08/12/21 13:46	- 2
890-1100-34	SB-29-4	Solid	08/10/21 16:05	08/12/21 13:46	- 4
890-1100-35	SB-29-10	Solid	08/10/21 16:20	08/12/21 13:46	- 10
890-1100-36	SB-29-15	Solid	08/10/21 16:25	08/12/21 13:46	- 15
890-1100-37	SB-29-25	Solid	08/10/21 16:35	08/12/21 13:46	- 25
890-1100-38	SB-22-2	Solid	08/11/21 08:45	08/12/21 13:46	- 2
890-1100-39	SB-22-4	Solid	08/11/21 08:50	08/12/21 13:46	- 4
890-1100-40	SB-22-15	Solid	08/11/21 09:20	08/12/21 13:46	- 15
890-1100-41	SB-22-30	Solid	08/11/21 11:40	08/12/21 13:46	- 30
890-1100-42	SB-22-45	Solid	08/11/21 12:20	08/12/21 13:46	- 45
890-1100-43	SB-22-50	Solid	08/11/21 12:35	08/12/21 13:46	- 50
890-1100-44	SB-19-2	Solid	08/11/21 12:45	08/12/21 13:46	- 2
890-1100-45	SB-19-4	Solid	08/11/21 12:50	08/12/21 13:46	- 4
890-1100-46	SB-19-20	Solid	08/11/21 13:20	08/12/21 13:46	- 20
890-1100-47	SB-19-45	Solid	08/11/21 14:05	08/12/21 13:46	- 45
890-1100-48	SB-19-50	Solid	08/11/21 14:15	08/12/21 13:46	- 50
890-1100-49	SB-18-2	Solid	08/11/21 14:20	08/12/21 13:46	- 2
890-1100-50	SB-18-4	Solid	08/11/21 14:25	08/12/21 13:46	- 4
890-1100-51	SB-18-30	Solid	08/11/21 15:20	08/12/21 13:46	- 30
890-1100-52	SB-18-55	Solid	08/11/21 16:25	08/12/21 13:46	- 55
890-1100-53	SB-18-60	Solid	08/11/21 16:40	08/12/21 13:46	- 60
890-1100-54	SB-21A-2	Solid	08/11/21 16:50	08/12/21 13:46	- 2
890-1100-55	SB-21A-4	Solid	08/11/21 16:55	08/12/21 13:46	- 4
890-1100-56	SB-21A-15	Solid	08/11/21 17:20	08/12/21 13:46	- 15

Sample Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1100-57	SB-21A-35	Solid	08/11/21 17:50	08/12/21 13:46	- 35
890-1100-58	SB-21A-55	Solid	08/11/21 18:50	08/12/21 13:46	- 55
890-1100-59	SB-21A-60	Solid	08/11/21 19:00	08/12/21 13:46	- 60
890-1100-60	SB-28-2	Solid	08/10/21 10:20	08/12/21 13:46	- 2
890-1100-61	SB-28-4	Solid	08/10/21 10:25	08/12/21 13:46	- 4
890-1100-62	SB-28-20	Solid	08/10/21 10:50	08/12/21 13:46	- 20
890-1100-63	SB-28-25	Solid	08/10/21 10:55	08/12/21 13:46	- 25
890-1100-64	SB-28-40	Solid	08/10/21 11:30	08/12/21 13:46	- 40
890-1100-65	SB-28-45	Solid	08/10/21 11:45	08/12/21 13:46	- 45
890-1100-66	SB-40A-2	Solid	08/12/21 08:05	08/12/21 13:46	- 2
890-1100-67	SB-40A-4	Solid	08/12/21 08:10	08/12/21 13:46	- 4
890-1100-68	SB-40A-10	Solid	08/12/21 08:40	08/12/21 13:46	- 10
890-1100-69	SB-40A-20	Solid	08/12/21 08:50	08/12/21 13:46	- 20
890-1100-70	SB-40A-25	Solid	08/12/21 08:55	08/12/21 13:46	- 25
890-1100-71	SB-27A-2	Solid	08/12/21 09:10	08/12/21 13:46	- 2
890-1100-72	SB-27A-4	Solid	08/12/21 09:15	08/12/21 13:46	- 4
890-1100-73	SB-27A-10	Solid	08/12/21 09:40	08/12/21 13:46	- 10
890-1100-74	SB-27A-15	Solid	08/12/21 09:45	08/12/21 13:46	- 15
890-1100-75	SB-27A-20	Solid	08/12/21 09:50	08/12/21 13:46	- 20
890-1100-76	SB-21B-2	Solid	08/12/21 10:00	08/12/21 13:46	- 2
890-1100-77	SB-21B-4	Solid	08/12/21 10:05	08/12/21 13:46	- 4
890-1100-78	SB-21B-6	Solid	08/12/21 10:20	08/12/21 13:46	- 6
890-1100-79	SB-21B-15	Solid	08/12/21 10:35	08/12/21 13:46	- 15
890-1100-80	SB-21B-20	Solid	08/12/21 10:40	08/12/21 13:46	- 20
890-1100-81	SB-21C-2	Solid	08/12/21 11:20	08/12/21 13:46	- 2
890-1100-82	SB-21C-4	Solid	08/12/21 11:25	08/12/21 13:46	- 4
890-1100-83	SB-21C-6	Solid	08/12/21 11:30	08/12/21 13:46	- 6
890-1100-84	SB-21C-15	Solid	08/12/21 11:45	08/12/21 13:46	- 15
890-1100-85	SB-21C-20	Solid	08/12/21 11:50	08/12/21 13:46	- 20



eurofins

Environment Testing
Xenco

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

Chain of Custody

Work Order No:

www.xenco.com Page 7 of 7

Project Manager:	Becky Haskell	Bill to: (if different)	Davis Kennedy
Company Name:	CHD	Company Name:	EOG
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	432 250 7917	Email:	Becky.Haskell@eog.com



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

Project Name:						<i>Filamento #1</i>						Turn Around											
Project Number:						<i>11920747</i>						<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush											
Project Location:												Due Date:						<i>3 Dec</i>					
Sampler's Name:						<i>Charles Meliga</i>						TAT starts the day received by the lab, if received by 4:30pm											
PO #:																							
SAMPLE RECEIPT																							
Samples Received Intact:						Temp Blank:						Thermometer ID:						Wet Ice:					
(Yes) No						(Yes) No						TM-007						(Yes) No					
Cooler Custody Seals:						Yes (No)						N/A						Correction Factor:					
Sample Custody Seals:						Yes (No)						N/A						Temperature Reading:					
Total Containers:												Corrected Temperature:						4.0					
Parameters																		Pres. Code					
<i>Surf de 300</i>																							
<i>EX 8021</i>																							
<i>8015 (H₂O, DRO, GPO)</i>																							
ANALYSIS REQUEST																		Preservative Codes					
																		None: NO					
																		DI Water: H ₂ O					
																		Cool: Cool					
																		MeOH: Me					
																		HCL: HC					
																		HNO ₃ : HN					
																		H ₂ SO ₄ : H ₂					
																		NaOH: Na					
																		H ₃ PO ₄ : HP					
																		NaHSO ₄ : NABIS					
																		Na ₂ S ₂ O ₃ : NasO ₃					
																		Zn Acetate+NaOH: Zn					
																		NaOH+Ascorbic Acid: SABC					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chl	BTC	TPH	Sample Comments
SB-33-2'	S	8-8-21	1720		G	1				
SB-33-4'			1725							
SB-33-20'			1450							
SB-33-55'		8-1-21	1130							
SB-33-60'		8-9-21	1800							
SB-33-65'		8-9-21	1215							
SB-33-2'		8-9-21	1355							
SB-31-4'			1400							
SB-31-15'			1420							
SB-31-25'	Y	Y	1430		Y	Y	Y	Y	Y	

[illegible]

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		8.2.21 13:13			

Revised Date 08/25/2020 Rev. 2020



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 2 of 9

Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

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

Project Name:	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	<input type="checkbox"/> Routine <input type="checkbox"/> Rush			
Project Location:	Due Date:			
Sampler's Name:	TAT starts the day received by the lab, if received by 4:30pm			
PO #:				
SAMPLE RECEIPT	Temp Blank:	Yes No	Malice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No	Correction Factor:		
Sample Custody Seals:	Yes No	Temperature Reading:		
Total Containers:	Yes No	Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Sample Comments
-----------------------	--------	--------------	--------------	-------	-----------	-----------	------------	-----------------

SB-81-50'	✓	8-9-21	1435		4	1	Chloride 300	
SB-30-2'			1450				BTEX 8021	
SB-30-4'			1455				TPH 8015	
SB-30-8'			1505					
SB-30-15'			1525					
SB-30-30'			1530					
SB-26-8'		8-10-21	1150					
SB-26-4'			1200					
SB-26-15'			1220					
SB-26-25'	✓		1235					

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: TELP/9PLP 0010: 8RCRA SD 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
		2			
		4			
		6			



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 3 of 9

Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

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

Project Name:	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	<input type="checkbox"/> Routine <input type="checkbox"/> Rush														None: NO	DI Water: H ₂ O		
Project Location:	Due Date:														Cool: Cool	MeOH: Me		
Sampler's Name:	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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP	
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:													NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:													Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:													Zn Acetate+NaOH: Zn			
Total Containers:		Corrected Temperature:													NaOH+Ascorbic Acid: SARC			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Sample Comments
SB-24-30'	5	8-10	1244		6	1	chl mid 300	
SB-25-21'			1350				BTEX 8021	
SB-25-4'			1355				IPH 8015	
SB-25-15'			1410					
SB-25-30'			1425					
SB-25-40'			1435					
SB-25-45'			1455					
SB-24-2'			1505					
SB-24-4'			1510					
SB-24-15'			1530					

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 Met(ke)s to be analyzed: TELP / SFLP 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
		2			
		4			
		6			



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 4 of 9

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

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

Project Name:	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number:	<input type="checkbox"/> Routine	<input type="checkbox"/> Rush		None: NO	DI Water: H ₂ O												
Project Location:	Due Date:			Cool: Cool	MeOH: Me												
Sampler's Name:	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									
Samples Received Intact:	Yes	No	Thermometer ID:														
Cooler Custody Seals:	Yes	No	Correction Factor:														
Sample Custody Seals:	Yes	No	Temperature Reading:														
Total Containers:			Corrected Temperature:														

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																					Sample Comments
SB-24-25'	5	8-10-21	1540		G	4																					
SB-24-30'		8-10-21	1545																								
SB-24-3'		8-10-21	1600																								
SB-29-4'			1605																								
SB-29-10'			1620																								
SB-29-15'			1625																								
SB-21-25'			1635																								
SB-22-2'		8-11	0645																								
SB-22-4'			0650																								
SB-22-15'			0920																								

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Pb	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		8RCRA 13PPM Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Pb	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
		TEHP/SLP 0010	8RCRA	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Pb	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		2			
		4			
		6			



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 5 of 9

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

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

Project Name:	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number:	<input type="checkbox"/> Routine <input type="checkbox"/> Rush															None: NO	DI Water: H ₂ O				
Project Location:	Due Date:															Cool: Cool	MeOH: Me				
Sampler's Name:	TAT starts the day received by the lab. Received by 4:30pm															HCL: HC	HNO ₃ : HN				
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na				
SAMPLE RECEIPT				Temp Blank:	Yes No	Wet Ice:	Yes No													H ₃ PO ₄ : HP	
Samples Received Intact:				Yes No	Thermometer ID:													NaHSO ₄ : NABIS			
Cooler Custody Seals:				Yes No	Correction Factor:													Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:				Yes No	Temperature Reading:													Zn Acetate+NaOH: Zn			
Total Containers:				Yes No	Corrected Temperature:													NaOH+Ascorbic Acid: SAPC			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters												Sample Comments
SB-22-30'	S	8-11-21	1140		6	1	Chloride 300												
SB-22-45'			1220				BTEX 8021												
SB-22-50'			1235				TPH 8615												
SB-19-26'			1245																
SB-19-41'			1250																
SB-19-20'			1320																
SB-19-45'			1405																
SB-19-50'			1415																
SB-18-2'			1420																
SB-18-4'			1425																

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Pb	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		8RCRA 13PPM 0010-8RCRA 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
		2			
		4			
		6			



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 6 of 9

Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

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

Project Name:	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	<input type="checkbox"/> Routine <input type="checkbox"/> Rush														None: NO	DI Water: H ₂ O	
Project Location:	Due Date:														Cool: Cool	MeOH: Me	
Sampler's Name:	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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													H ₃ PO ₄ : HP	
Samples Received Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:														NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Correction Factor:														Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	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	Parameters	Sample Comments
SB-18-36'	5	8-11-21	1620		1		Chloride 300	
SB-18-55'			1626				BTX 8021	
SB-18-66'			1640				TPH 8015	
SB-21A-2'			1650					
SB-21A-4'			1655					
SB-21A-15'			1720					
SB-21A-35'			1850					
SB-21A-55'			1850					
SB-21A-66'			1900					
SB-28-2'	Y	8-10-21	1020					

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 Mettler to be analyzed: TELP-9PLP 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
		2			
		4			
		6			



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 4 of 9

Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

Work Order Comments	
Program: UST/PST	PRP
State of Project:	Brownfields
Reporting: Level II	Level III
Deliverables: EDD	ADAPT
	Other:

Project Name:	Turn Around	Pres. Code	ANALYSIS REQUEST				Preservative Codes	
Project Number:	<input type="checkbox"/> Routine <input type="checkbox"/> Rush						None: NO	DI Water: H ₂ O
Project Location:	Due Date:						Cool: Cool	MeOH: Me
Sampler's Name:	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:	H ₃ PO ₄ : HP	
Samples Received Intact:	Yes	No	Thermometer ID:				NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes	No	Correction Factor:				Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes	No	Temperature Reading:				Zn Acetate+NaOH: Zn	
Total Containers:	Yes	No	Corrected Temperature:				NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Cont	# of Cont	Parameters	Sample Comments
SB-28-4'	S	8-10-21	1025		Q	1	Chwide 300.0	
SB-28-20'			1055				BTEX 8021	
SB-28-25'			1130				TPH 8015	
SB-28-40'			1145					
SB-28-45'			0825					
SB-40A-4'		8-12-21	0810					
SB-40A-10'			0840					
SB-40A-20'			0850					
SB-40A-25'			0855					

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 Matrix to be analyzed: TCEP / STEP 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
		2			
		4			
		6			



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 8 of 9

Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

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

Project Name:	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	<input type="checkbox"/> Routine <input type="checkbox"/> Rush	Due Date:														None: NO	DI Water: H ₂ O			
Project Location:	TAT starts the day received by the lab, if received by 4:30pm																Cool: Cool	MeOH: Me		
Sample Name:																	HCL: HC	HNO ₃ : HN		
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No															H ₃ PO ₄ : HP	
Samples Received Intact:	Yes No	Thermometer ID:															NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes No	Correction Factor:															Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Yes No	Temperature Reading:															Zn Acetate+NaOH: Zn			
Total Containers:	Corrected Temperature:																NaOH+Ascorbic Acid: SARC			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont													Sample Comments
SB-27A-2'	S	8-12-24	0910		6	1	Chloride 300.0												
SB-27A-4'			0915				BTEX 8021												
SB-27A-10'			0940				TPH 8015												
SB-27A-15'			0945																
SB-27A-20'			0950																
SB-27A-2'			1000																
SB-27A-4'			1005																
SB-27A-6'			1020																
SB-27A-15'			1035																
SB-27A-20'			1040																

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 Mettler(s) to be analyzed: TCEP STCP 6010: 8RCRA SD 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
		2			
		4			
		6			



Environment Testing
Xenco

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

Chain of Custody

Work Order No.:

www.xenco.com

Page

9 of 9

Project Manager:	Bill to: (if different)	
Company Name:	Company Name:	
Address:	Address:	
City, State ZIP:	City, State ZIP:	
Phone:	Email:	

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

Turn Around						ANALYSIS REQUEST																		Preservative Codes		
Project Name:	Project Number:	Project Location:	Sample's Name:	PO #:	Due Date:	Press. Code																		None: NO	DI Water: H ₂ O	
					TAT starts the day received by the lab, if received by 4:30pm																			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		
SAMPLE RECEIPT						Parameters																			Sample Comments	
Samples Received Intact:	Temp Blank:	Yes	No	Thermometer ID:	Wet Ice:	Yes	No																			
Cooler Custody Seals:	Yes	No	N/A	Corruption Factor:	Temperature Reading:	Yes	No																			
Sample Custody Seals:	Yes	No	N/A	Corrected Temperature:																						
Total Containers:																										
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																				
SB-2IC-2'	✓	8-12-21	1120		G1	1	Chloride 300																			
SB-2IC-4'			1125				BTGX 8021																			
SB-2IC-6'			1130				TPI 8015 MRD, 6RD, PRD																			
SB-2IC-15'			1145																							
SB-2IC-20'			1150																							
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:						TCLEP / SPLCP 6010: 8RCRA SB As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471																				
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.																										
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time																					
1																										
2																										
3																										

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

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact:	Phone	Simmons, Debbie	890-349 1		
Shipping/Receiving	E-Mail	debbie.simmons@eurofins.com	State of Origin:	New Mexico	Page: 1 of 10
Company:			Accreditations Required (See note)	NEIAP - Louisiana, NELAP - Texas	Job #
Address	1211 W. Florida Ave	Due Date Requested	8/18/2021		890-1100-1
City	Midland	TAT Requested (days):			
State, Zip	TX, 79701	PO #			
Phone	432-704-5440(Tel)	WO #			
Email		Project #	88000221		
Project Name:	Flamenco #1	SSOV#			
Site					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=1-tissue, A=Air)
BH-33-2 (890-1100-1)		8/8/21	Mountain	Solid	
BH-33-4 (890-1100-2)		8/8/21	Mountain	Solid	
BH-33-20 (890-1100-3)		8/8/21	Mountain	Solid	
BH-33-55 (890-1100-4)		8/8/21	Mountain	Solid	
BH-33-60 (890-1100-5)		8/8/21	Mountain	Solid	
BH-33-65 (890-1100-6)		8/8/21	Mountain	Solid	
BH-31-2 (890-1100-7)		8/9/21	Mountain	Solid	
BH-31-4 (890-1100-8)		8/9/21	Mountain	Solid	
BH-31-15 (890-1100-9)		8/9/21	Mountain	Solid	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/method being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I, II, III, IV Other (specify)					
Primary Deliverable Rank 2					
Special Institutions/QAC Requirements					
Empty Kit Relinquished by					
Relinquished by					
Relinquished by					
Relinquished by					
Custody Seals Intact.					
Custody Seal No					
Cooler Temperature(s) °C and Other Remarks					

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Simmons Debbie	Carrier Tracking No(s)	COC No					
Shipping/Receiving		Phone:	E-Mail	debbie.simmons@eurofinset.com	State of Origin	Page					
Company		Accreditations Required (See note)			Job #	Page 2 of 10					
Eurofins Xenco		NELAP - Louisiana NELAP - Texas			890-1100-1						
Address		Due Date Requested		Preservation Codes							
1211 W Florida Ave		8/18/2021		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:							
City		TAT Requested (days)		Analysis Requested							
Midland											
State Zip											
TX 79701											
Phone		PO #									
432-704-5440(Tel)											
Email		WO #									
Project Name		Project #									
Flamenco #1		88000221									
Site		SSOW#									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH NM	8021B/5035FP_Calc BTEX (bulk jar/FP prep)	300_ORGFM_28D/DL_LEACH Chloride	Total Number of containers	Special Instructions/Note.
BH-31-15 (890-1100-10)	8/9/21	Mountain		Solid	X	X	X	X	X	1	
BH-31-30 (890-1100-11)	8/9/21	Mountain		Solid	X	X	X	X	X	1	
BH-30-2 (890-1100-12)	8/9/21	Mountain		Solid	X	X	X	X	X	1	
BH-30-4 (890-1100-13)	8/9/21	Mountain		Solid	X	X	X	X	X	1	
BH-30-8 (890-1100-14)	8/9/21	Mountain		Solid	X	X	X	X	X	1	
BH-30-25 (890-1100-15)	8/9/21	Mountain		Solid	X	X	X	X	X	1	
BH-30-30 (890-1100-16)	8/9/21	Mountain		Solid	X	X	X	X	X	1	
BH-26-2 (890-1100-17)	8/10/21	Mountain		Solid	X	X	X	X	X	1	
BH-26-4 (890-1100-18)	8/10/21	Mountain		Solid	X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested I, II, III, IV Other (specify) Primary Deliverable Rank. 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Company	Method of Shipment:
Relinquished by: <i>ChaeCuz</i>	8/18/2021	11:00am	Company	
Relinquished by:	Date/Time		Company	
Relinquished by:	Date/Time		Company	

Cooler Temperature(s) °C and Other Remarks

Custody Seals Intact: ☐ Yes ☐ No

Custody Seal No

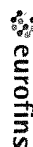
Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad, NM 88220

Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



**Environment Testing
America**

Client Information (Sub Contract Lab)						Sampler
Client Contact:						Lab PM
Shipping/Receiving						Simmons, Debbie
Company						E-Mail: debbie.simmons@eurofinset.com
Address						Accreditations Required (See note).
Eurofins Xenco						NELAP - Louisiana, NELAP - Texas
City						State of Origin
Midland						New Mexico
State Zip						Page 3 of 10
TX 79701						Job #:
Phone						890-1100-1
432-704-5440(Te)						
Email:						
Project Name:						
Flamenco #1						
Site						
SSOW#:						
Due Date Requested						
8/18/2021						
TAT Requested (days)						
PO #:						
WO #:						
Project #:						
88000221						
Sample Identification - Client ID (Lab ID)						
BH-26-15 (890-1100-19)	8/10/21	Mountain	Solid	X	X	X
BH-26-25 (890-1100-20)	8/10/21	Mountain	Solid	X	X	X
BH-26-30 (890-1100-21)	8/10/21	Mountain	Solid	X	X	X
BH-25-2 (890-1100-22)	8/10/21	Mountain	Solid	X	X	X
BH-25-4 (890-1100-23)	8/10/21	Mountain	Solid	X	X	X
BH-25-15 (890-1100-24)	8/10/21	Mountain	Solid	X	X	X
BH-25-30 (890-1100-25)	8/10/21	Mountain	Solid	X	X	X
BH-25-40 (890-1100-26)	8/10/21	Mountain	Solid	X	X	X
BH-25-45 (890-1100-27)	8/10/21	Mountain	Solid	X	X	X
Total Number of containers						1
Special Instructions/Note						
Field Filtered Sample (Yes or No)						
Perform MS/MSD (Yes or No)						
8015MOD_NM/8015NM_S_Prep Full TPH - NM						
8021B/5035FP_Calc BTEX (bulk jar/FP prep)						
300_ORGFM_28D/DI_LEACH Chloride						
Preservation Codes.						
A HCL	M Hexane					
B NaOH	N None					
C Zn Acetate	O AsNaO2					
D Nitric Acid	P Na2O4S					
E NaHSO4	Q Na2SO3					
F MeOH	R Na2S2O3					
G Amchlor	S H2SO4					
H Ascorbic Acid	T TSP Dodecalhydrate					
I Ice	U Acetone					
J DI Water	V MCAA					
K EDTA	W pH 4-5					
L EDA	Z other (Specify)					
Other						

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1100-1

SDG Number: 11220747

Login Number: 1100**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1100-1

SDG Number: 11220747

Login Number: 1100**List Number: 2****Creator: Copeland, Tatiana****List Source: Eurofins Xenco, Midland****List Creation: 08/13/21 11:13 AM**

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 19, 2021

BECKY HASKELL

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE, NM 87110

RE: FLAMENCO #1

Enclosed are the results of analyses for samples received by the laboratory on 08/19/21 8:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 08/19/2021
 Reported: 08/19/2021
 Project Name: FLAMENCO #1
 Project Number: 11220747
 Project Location: NONE GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB - 43-50' (H212206-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 08/19/2021
 Reported: 08/19/2021
 Project Name: FLAMENCO #1
 Project Number: 11220747
 Project Location: NONE GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB - 43-55' (H212206-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEx	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/19/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.3 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 08/19/2021
 Reported: 08/19/2021
 Project Name: FLAMENCO #1
 Project Number: 11220747
 Project Location: NONE GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB - 12-55' (H212206-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/19/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.1 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 08/19/2021
 Reported: 08/19/2021
 Project Name: FLAMENCO #1
 Project Number: 11220747
 Project Location: NONE GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB - 12-60' (H212206-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEx	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/19/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 08/19/2021
 Reported: 08/19/2021
 Project Name: FLAMENCO #1
 Project Number: 11220747
 Project Location: NONE GIVEN

Sampling Date: 08/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB - 36-75' (H212206-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/19/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.0 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 08/19/2021
 Reported: 08/19/2021
 Project Name: FLAMENCO #1
 Project Number: 11220747
 Project Location: NONE GIVEN

Sampling Date: 08/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB - 36-80' (H212206-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953		
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543		
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729		
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27		
Total BTEx	<0.300	0.300	08/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 94.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.9 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 08/19/2021
 Reported: 08/19/2021
 Project Name: FLAMENCO #1
 Project Number: 11220747
 Project Location: NONE GIVEN

Sampling Date: 08/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB - 35-55' (H212206-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.9 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 08/19/2021
 Reported: 08/19/2021
 Project Name: FLAMENCO #1
 Project Number: 11220747
 Project Location: NONE GIVEN

Sampling Date: 08/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB - 35-75' (H212206-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.6 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 08/19/2021
 Reported: 08/19/2021
 Project Name: FLAMENCO #1
 Project Number: 11220747
 Project Location: NONE GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB - 35-80' (H212206-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 70.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.4 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 08/19/2021
 Reported: 08/19/2021
 Project Name: FLAMENCO #1
 Project Number: 11220747
 Project Location: NONE GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB - 18-65' (H212206-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEx	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/19/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	184	92.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	208	104	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 87.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.5 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 08/19/2021
 Reported: 08/19/2021
 Project Name: FLAMENCO #1
 Project Number: 11220747
 Project Location: NONE GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB - 18-70' (H212206-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEx	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/19/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	184	92.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	208	104	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg. 1/2

Company Name: GHD		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Becky Haskell		Company:					
Address: Midland		Attn:					
City:		State: TX		Zip:			
Phone #: 432 250 7914		Fax: Becky.Haskell@ghd.com		Address:			
Project #: 11220441		Project Owner:		City:			
Project Name: Flamenco #1		State:		Zip:			
Project Location:		Phone #:		Fax #:			
Sampler Name:		PRESERV:		SAMPLING			
FOR LAB USE ONLY		MATRIX					
Lab I.D.		Sample I.D.					
1		5B-43-50'		G		DATE	
2		5B-43-55'		1		TIME	
3		5B-12-55'				8-18-21 1300	
4		5B-12-60'				8-18-21 1420	
5		5B-36-75'				8-18-21 1535	
6		5B-36-80'				8-18-21 1515	
7		5B-35-55'				8-18-21 1710	
8		5B-35-75'				8-18-21 1710	
9		5B-35-80'				8-18-21 1810	
						Chlorides 300.0 4500	
						BTEX 8021	
						TPH 8015 (MRO, DRO, GRO)	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: **[Signature]** Date: **8-18-21** Received By: **[Signature]** Date: **8-18-21**

Delivered By: (Circle One) **Observed Temp. °C 5.9** Sample Condition **Cool Intact** CHECKED BY: (Initials) **TP**

Sampler - UPS - Bus - Other: **Corrected Temp. °C** **Yes** ☒ **No** ☐

Turnaround Time: **Standard** ☐ **Rush** ☒ Bacteria (only) Sample Condition **Cool Intact** ☒ **Yes** ☐ **No** ☐ **Corrected Temp. °C**

REMARKS: **Same Day**

Verbal Result: ☐ Yes ☐ No Add'l Phone #: **819/21**

All Results are emailed. Please provide Email address:



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg. 2/2

Company Name:				P.O. #:				BILL TO				ANALYSIS REQUEST			
Project Manager:				Company:											
Address:				Attn:											
City:				Address:											
Phone #:				City:											
Fax #:				State:											
Project #:				Zip:											
Project Name:				Phone #:											
Project Location:				Fax #:											
Sample Name:															
FOR LAB USE ONLY															
Lab I.D.				Sample I.D.											
H212206				10 58-18-65'											
11 58-18-70'															
				(G)RAB OR (C)OMP.											
				# CONTAINERS											
				GROUNDWATER											
				WASTEWATER											
				SOIL											
				OIL											
				SLUDGE											
				OTHER :											
				ACID/BASE:											
				ICE / COOL											
				OTHER :											
				DATE											
				TIME											
				8-18-21											
				1105											
				8-18-21											
				1125											
				X											
				X											
				X											
				Chloride 500.0 4500 TP 8/19/21											
				STEX 8021											
				TPH 8015 (GRO, DRO, MRO)											

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

CONDITIONS

Action 84905

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 84905
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Groundwater Closure Report Approved. Remediation Plan Approved. Incident # nOY1724941773 will be closed when Closure Report has been received and Approved.	5/2/2022