Appendix F4: Limited Phase II Environmental Site Assessment

Appendices

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February 4, 2020

Project No.
16664.000.000

Mr. Joe Martin
TH Trumark Homes, LLC
450 Newport Center Drive, Suite 300
Newport Beach, CA 92660

Subject: Former La Puerta School Site
2475 Forbes Avenue
Claremont, California

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

References:

1. Environmental Geoscience Services; Phase I Environmental Site Assessment, La Puerta School Site, 2475 Forbes Avenue, Claremont, California; August 16, 2002.
2. Environmental Geoscience Services; Work Plan – Preliminary Endangerment Assessment, La Puerta School Site, 2475 Forbes Avenue, Claremont, California; December 11, 2002.
3. Environmental Geoscience Services; Revised Work Plan – Preliminary Endangerment Assessment, La Puerta School Site, 2475 Forbes Avenue, Claremont, California (DTSC Site Code 304393-11); January 21, 2003.
4. Environmental Geoscience Services; Final Report – Preliminary Endangerment Assessment, La Puerta School Site, 2475 Forbes Avenue, Claremont, California (DTSC Site Code 304393-11); August 13, 2003.
5. Department of Toxic Substances Control; Removal Action Closure Report No Further Action Letter, Proposed La Puerta Elementary School Site, 2475 North Forbes Avenue, Claremont (Site Code 304393); November 12, 2004.

Dear Mr. Martin:

ENGEO is pleased to submit the findings of our environmental peer review and limited phase II environmental site assessment (ESA) services for the approximately 9.7-acre subject site (Site), located at 2475 Forbes Avenue in Claremont, California (Figures 1 and 2). The purpose of the environmental peer review and limited phase II ESA was to determine if any data gaps existed from previous investigations and to assess potential impacts to Site soil associated with past and current activities at the Site.

BACKGROUND

SITE IDENTIFICATION			
Site Name:	Former La Puerta School Site		
Site Address:	2475 Forbes Avenue		
City:	Claremont	**County:** Los Angeles	**State:** California
Current Land Use:	Paved parking lot, open space, soil stockpile area		
Assessor Parcel Number:	Portion of 8670003900		

SUMMARY OF REVIEWED REPORTS

1. Environmental Geoscience Services; Phase I Environmental Site Assessment, La Puerta School Site, 2475 Forbes Avenue, Claremont, California; August 16, 2002.

In August 2002, Environmental Geoscience Services (EGS) prepared a Phase I Environmental Site Assessment. The EGS report described the Site as mostly undeveloped land and the northernmost area developed with an elementary school. The developed area consisted of three main structures (two brick structures, built approximately 1968, and one temporary wooden structure), an enclosure that housed electrical transformers, and an asphalt parking area. The Site was used for agricultural purposes, possibly citrus trees, from at least 1928 to 1967. A large above-ground storage tank, approximately 70 feet in diameter, was noted in the northeastern corner of the Site in the 1949 and 1952 aerial photographs. Beginning in the late 1960s, the Site was developed as an elementary school, and the three school structures (two brick structures and a portable classroom) remained on site until at least 2018.

EGS identified one Recognized Environmental Condition associated with the Site – the previous agricultural land use – and recommended: "that a sampling and analysis plan be developed and implemented to characterize the near surface soils for the presence of residual agricultural chemicals, if any."

2. Environmental Geoscience Services; Revised Work Plan – Preliminary Endangerment Assessment, La Puerta School Site, 2475 Forbes Avenue, Claremont, California (DTSC Site Code 304393-11); January 21, 2003.

As part of a Preliminary Endangerment Assessment (PEA) for the Site, EGS developed a Work Plan and a revised Work Plan, which included a sampling strategy and a health and safety plan. The revision was prepared to clarify from the Department of Toxic Substances Control (DTSC). EGS conducted three sampling events on the following dates: February 19 and 20, 2003; April 14, 2003; and April 25, 2003. The proposed sample locations, depths, and laboratory analysis are summarized below.

Throughout the Site
Six locations were analyzed for organochlorine pesticides (OCPs) and arsenic, with sample depths at 0.5 and 2.5 feet below ground surface (bgs). Three of these 12 samples, collected at a depth of 0.5 foot bgs, were also analyzed for Title 22 metals.

Two stockpiles and graded area
Five sample locations were analyzed for OCPs, CAM-17 metals, semi-volatile organic compounds (SVOCs), and polychlorinated biphenyls (PCBs), at sample depths of 1, 3, and 5 feet bgs. The samples collected at 3 and 5 feet bgs were also analyzed for volatile organic compounds (VOCs).

Location of former AST (northeastern corner of Site)
The proposed sample plan included three locations analyzed for total petroleum hydrocarbons (TPH) carbon chain, SVOCs, OCPs, and arsenic at sample depths of 1 and 5 feet bgs. Samples collected at 5 and 10 feet bgs were also analyzed for VOCs. Following subsequent laboratory analysis, EGS collected samples at an additional 55 locations and analyzed them for arsenic at 1 and 2.5 feet bgs, and four locations were analyzed for TPH at 1 and 2.5 feet bgs.

Electrical transformer footprint
Four locations were analyzed for PCBs at sample depths of 0.5 and 3 feet bgs.

Existing structure footprints
Eight locations were analyzed for total lead at a sample depth of 0.5 foot bgs.

Offsite background samples
Four locations (plus to replicate samples) were analyzed for Title 22 metals at a sample depth of 0.5 foot bgs.

3. Environmental Geoscience Services; Final Report – Preliminary Endangerment Assessment, La Puerta School Site, 2475 Forbes Avenue, Claremont, California (DTSC Site Code 304393-11); August 13, 2003.

Based on *"the analytical results from the PEA field investigation work, EGS presents the following conclusions:*

- *Asbestos-containing building materials have been identified within the two site structures.*
- *Organochlorine pesticides were detected in low concentrations at all areas of the site.*
- *The concentrations of metals detected at the site were similar to background concentrations, except for the elevated concentrations of arsenic which were only detected in the soil under the asphalt paved area at the northeast comer of the site.*
- *PCBs and VOCs were not detected in any of the samples analyzed.*
- *Very low concentrations of SVOC and PAHS were detected in only two soil samples.*
- *TPH long-chain hydrocarbons; [motor oil] were only detected in the shallow soil in the northeast comer of the site, in the same general area where arsenic was detected in the soil.*
- *The soil samples from the stockpiled soil did not identify any detectable concentrations of volatile organic compounds (from deeper samples), TPH, or PCBs. The reported concentrations of organochlorine pesticides and CAM 17 metals were consistent with the findings from soil samples analyzed from other areas of the site (except for the northeast comer arsenic data). Only one sample revealed low concentrations of semi-volatile organic compounds, which were within the acceptable range. The soil samples collected from the stockpiled soil consisted of gravelly silty sands, gravelly sands, and sandy gravels, which are similar to the soil encountered in other areas of the site. Although the origin of the stockpiled soil is unknown, EGS concludes that the stockpiled soil does not appear to be a concern.*
- *Low concentrations of lead were detected in the soil around the buildings.*

EGS made two recommendations, as follows:

- *"Remove all asbestos containing building materials prior to conducting any demolition and/or remodeling work. According to the District, all asbestos containing materials will be removed prior to any demolition and/or remodeling work. The asbestos removal work will be conducted within the next 60 days.*
- *Mitigate the potential health risk posed by the presence of arsenic impacted soil at the northeast comer of the site. Prior to the planned site development work, EGS recommends that the arsenic impacted soil be removed from the site. The soil excavation and removal*

activities will need to be conducted under the oversight of the DTSC, within the guidelines of the DTSC's Voluntary Cleanup Program. Upon approval of the findings presented in this PEA, the Claremont Unified School District should initiate an agreement with the DTSC (Voluntary Cleanup Agreement). This agreement will establish an understanding for the procedure protocol so that the soil removal work will be completed in accordance with the DTSC's requirements for school construction sites."

4. Department of Toxic Substances Control; Removal Action Closure Report No Further Action Letter, Proposed La Puerta Elementary School Site, 2475 North Forbes Avenue, Claremont (Site Code 304393); November 12, 2004.

In November 2004, DTSC issued a letter to approve EGS's October 2004 Removal Action Closure (RAC) Report. In the letter, DTSC stated that the target cleanup goals, 8.68 milligrams/kilogram (mg/kg) arsenic and 1,000 mg/kg TPH, were achieved, and concurred that "no further action is necessary" for the site at 2475 North Forbes Avenue. The DTSC no further action (NFA) letter states that approximately 629 tons (27 trucks) of contaminated soil was removed and off-hauled as non-hazardous waste.

At this time, ENGEO has not been provided with the two reports referenced in the DTSC NFA letter: (1) the Removal Action Workplan (RAW) and (2) the RAC. Therefore, the concentrations of arsenic and TPH remaining in the excavated area are unknown.

Trumark provided us with aerial photographs on October 16, 2019, in which the Site appeared to be vacant land with asphalt-paved areas in the north, no structures or foundations, and an area of stockpiled soil in the southwestern portion of the Site. Based on discussions with Trumark, it was unknown if the soil was actively being imported to the Site.

SOIL SAMPLING AND LABORATORY TESTING

We notified the Underground Service Alert (USA Dig Alert) prior to drilling, and we additionally retained a private utility locator to survey the boring locations. A C-57 licensed direct-push drilling contractor advanced 18 borings on December 30, 2019, at the Site for a total of 40 soil samples. Additionally, we collected 24 soil samples with hand tools on December 30, 2019, and January 21, 2020.

The borings were advanced to a maximum depth of approximately 10 feet below the ground surface; therefore, no boring permit was required from the County of Los Angeles. We did not encounter groundwater during the drilling activities to the depth explored.

Confirmation Sampling – Former AST, Northeast Area

As described above, previous sampling and testing conducted by others identified near-surface and subsurface arsenic and petroleum impacts at the former AST location in the northeast corner of the Site. The impacted soil was reportedly removed to below the DTSC-approved cleanup goals of 8.68 mg/kg arsenic and 1,000 mg/kg TPH. Due to the lack of laboratory data for the remaining soil within the former excavation area, we completed confirmation sampling at two borings near the former AST area.

- A Geoprobe® direct-push rig advanced two borings – one boring was located within the former excavation limits, and one boring was located just outside of the former excavation limits

(Figure 3). We retrieved continuous soil cores were from each boring and collected soil samples at depths of 1, 2.5, 5, and 10 feet bgs. We screened each continuous core for VOCs, using a photoionization detector (PID).

- Upon collection of samples, we placed a sample label on the samples, including the project number, a unique sample number, and the time/date collected. We then placed the soil samples in an ice-cooled chest and submitted under documented chain-of-custody to a State-certified laboratory.
- We instructed the laboratory to analyze the soil samples on a discrete basis for TPH as gasoline, diesel, and motor oil (TPH-g, d, and mo) (EPA Method 8015M with silica gel cleanup), VOCs (EPA Method 8260), and arsenic (EPA Methods 6020).

Characterization Sampling – Former Structures Area, Northeast Area

Historically, it was common practice to apply OCPs around structure foundations as insecticides for termite control. Based on the previous soil sampling reports, it appears that soil samples collected near the structure foundations were analyzed only for lead. As discussed above, the October 2019 aerial photographs indicated that the foundations of the former structures have been removed. The purpose of this soil sampling was to determine if the soil near the former structures exhibits residual impacts from potential past OCP application.

- In accordance with the *DTSC Interim Guidance Evaluation Of School Sites With Potential Soil Contamination As A Result Of Lead From Lead-Based Paint, Organochlorine Pesticides From Termiticides, And Polychlorinated Biphenyls From Electrical Transformers (June 2006),* we collected 32 discrete soil samples from 16 locations throughout the former structure area.
- A Geoprobe® direct-push rig advanced 16 borings throughout the area of former structures (Figure 3). Though the figures are visible in the aerial photograph, no structures were present at the time of sampling. We retrieved continuous soil cores from each boring and collected soil samples at two depths – 0 to 6 inches, and 3 feet bgs.
- Upon collection of samples, we placed a sample label on the samples, including the project number, a unique sample number, and the time/date collected. We then placed the soil samples in an ice-cooled chest and submitted under documented chain-of-custody to a State-certified laboratory.
- We instructed the laboratory to composite adjacent soil samples from similar depths as 4-point composite samples (eight total). The soil samples were analyzed for OCPs (EPA Method 8081) on a 4-point composite basis.

Characterization Sampling – Existing Stockpile, Southwest Area

Numerous stockpiles were located in the southwestern portion of the Site. It is our understanding that this import soil is undocumented. The purpose of this soil sampling was to characterize soil throughout the stockpile to determine the environmental suitability for residential engineered fill. It should be noted that during our sampling event on January 21, 2020, we observed haul trucks bringing additional soil onto the Site. We sampled only the material that had been present during our initial visit, as shown on Figure 4, which does not include the additional import material.

- In general accordance with the DTSC Fill Advisory document, we collected 24 soil samples from approximately 1 foot bgs throughout the stockpile area (Figure 4). Using hand-sampling equipment, we collected the soil samples in 2-inch by 6-inch stainless steel liners and sealed the samples with Teflon® sheeting and snug-fitting end caps.

Upon collection of samples, we placed a sample label on the samples, including the project number, a unique sample number, and the time/date collected. We then placed the soil samples in an ice-cooled chest and submitted under documented chain-of-custody to a State-certified laboratory.

- We instructed the laboratory to analyze the 16 samples on a discrete basis for the following:
  - TPH-g, d, and mo (EPA Method 8015; with silica gel cleanup).
  - VOCs (EPA Method 8260).
  - SVOCs (EPA Method 8270 SIM).

- We instructed the laboratory to composite adjacent samples as 4-point composite samples (four total samples) and analyze for the following:
  - CAM-17 metals (EPA Methods 6010/7471A).
  - OCPs (EPA Method 8081).
  - PCBs (EPA Method 8082).

ANALYTICAL RESULTS

We compared the laboratory test results to corresponding United States Environmental Protection Agency USEPA Regional Screening Levels (RSLs[1]) and California Department of Toxic Substance Control Modified Screening Levels (DTSC SLs[2]), assuming a residential land use scenario. The laboratory reports are attached in their entirety in Appendix A and Appendix B.

Confirmation Sampling – Former AST, Northeast Area

Based on the review of laboratory test results for the eight discrete soil samples, six samples reported TPH-g, TPH-d, TPH-mo, and VOCs to be below the corresponding laboratory detection limits, or "non-detectable". Two samples, "01-FAST-01@10" and "01-FAST-02@1", reported detectable concentrations of TPH-d and TPH-mo. Maximum concentrations were reported as 28.1 and 109 mg/kg, respectively. The TPH concentrations are below corresponding residential screening levels, and below the previously established DTSC cleanup goal of 1,000 mg/kg.

Each soil sample reported detectable concentrations of arsenic, with concentrations ranging between 1.40 and 6.15 mg/kg. Though arsenic was detected in each of the eight samples, the reported concentrations are within the background concentration of 12 mg/kg for arsenic in Southern California[3], and below the previously established DTSC cleanup goal of 8.68 mg/kg. TPH and arsenic were the only constituents analyzed in this area.

[1] US Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs) for residential land use (November 2019).
[2] Department of Toxic Substance Control (DTSC) Modified Screening Levels DTSC-SLs for residential land use (April 2019).
[3] Department of Toxic Substances Control (DTSC) Determination of a Southern California Background Arsenic Concentration in Soil, March 2008

Characterization Sampling – Former Structures Area, Northeast Area

Seven of the eight soil composite soil samples reported all OCPs as non-detectable. One sample, "4-pt composite 01-FS-07, 10, 11, 12@0", reported 4,4'-DDT as 0.0051 mg/kg, which is below the corresponding screening levels. All other OCPs in the sample were reported as non-detectable. OCPs were the only constituents analyzed in this area.

Characterization Sampling – Existing Stockpile, Southwest Area

The 24 discrete soil samples reported TPH-g and VOCs as non-detectable. Detectable concentrations of TPH-d and TPH-mo were reported in five samples, "01-SP-A3", "01-SP-C2", "02-SP-01", "02-SP-04", and "02-SP-05", with maximum concentrations of 36.8 and 46.2 mg/kg, respectively. The TPH concentrations are below corresponding residential screening levels and below the established DTSC cleanup goal of 1,000 mg/kg.

Twelve samples reported detectable concentrations of SVOCs SIM, all of which were below corresponding screening levels, with the exception of one sample, "01-SP-B5", which exceeded the corresponding screening level for benzo(a)pyrene (BaP). We performed a statistical analysis of the BaP sample results to calculate the 95 percent upper confidence limit (95% UCL) using ProUCL Version 5.1.002. The resulting BaP concentration value is 0.077 mg/kg, which is less than the corresponding screening level of 0.11 mg/kg. The UCL output is included in Appendix C.

The four 4-point composite samples reported OCPs and PCBs as non-detectable, with the exception of one sample, "4-pt composite 02-SP-01, 02, 03, 04", reporting DDE as 0.012 mg/kg. The DDE concentration is below the corresponding residential screening level. Each sample reported detectable metal concentrations below screening levels, with the exception of arsenic. As described above, the reported arsenic concentrations are within background concentrations for arsenic in Southern California and below the DTSC cleanup goal of 8.68 mg/kg.

CONCLUSIONS

Based on field observations and the analytical results, the remaining soil within/near the former above-ground storage tank, and also within the the area of former structures, does not exhibit significant residual impacts and is suitable for residential development.

One sample from the stockpile, Sample "01-SP-B5", reported a concentration of BaP that exceeded the corresponding screening level fo residential use. After performing a statistical analysis of the BaP sample results for all 24 stockpile soil samples, which represent the soil stockpiled on the Site as of December 30, 2019, the 95% UCL is below the corresponding residential screening level. It is our professional opinion that the stockpiled soil present on December 30, 2019, does not exhibit significant residual impacts and is suitable for residential development.

As described above, we observed haul trucks importing additional material during our January 21, 2020 sample event. Based on our understanding that the source and volume of import is unknown, we recommend sampling the additional import soil to determine environmental suitability prior to use as engineered fill.

If you have any questions on any portion of this letter, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

Adrianna Lundberg Shawn Munger, CHG
aml/sm/jf

Attachments: Figures 1 through 4
Appendix A – Laboratory Analytical Reports, Enthalpy Analytical, LLC
- Former AST and Former Structures – Northeast Area
Appendix B – Laboratory Analytical Reports, Enthalpy Analytical, LLC
- Existing Stockpile – Southwest Area
Appendix C – UCL Output for BaP in the Southwest Stockpile

FIGURES

BASEMAP SOURCE: ESRI MAPPING SERVICE

ENGEO Expect Excellence

VICINITY MAP

2475 FORBES AVENUE, FORMER LA PUERTA SCHOOL

CLAREMONT, CALIFORNIA

PROJECT NO. :	16664.000.000
SCALE:	AS SHOWN
DRAWN BY: MAT	CHECKED BY: SPM

FIGURE NO. 1

PATH: G:\DRAFTING\PROJECTS_16000 TO 17999\16664\16664000000\ENVIRONMENTAL\ESA_LA_PUERTA\16664_ESA_LA_PUERTA_.APRX
USER: MTORRES

ORIGINAL FIGURE PRINTED IN COLOR

BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE

ENGEO Expect Excellence

SITE PLAN

2475 FORBES AVENUE, FORMER LA PUERTA SCHOOL

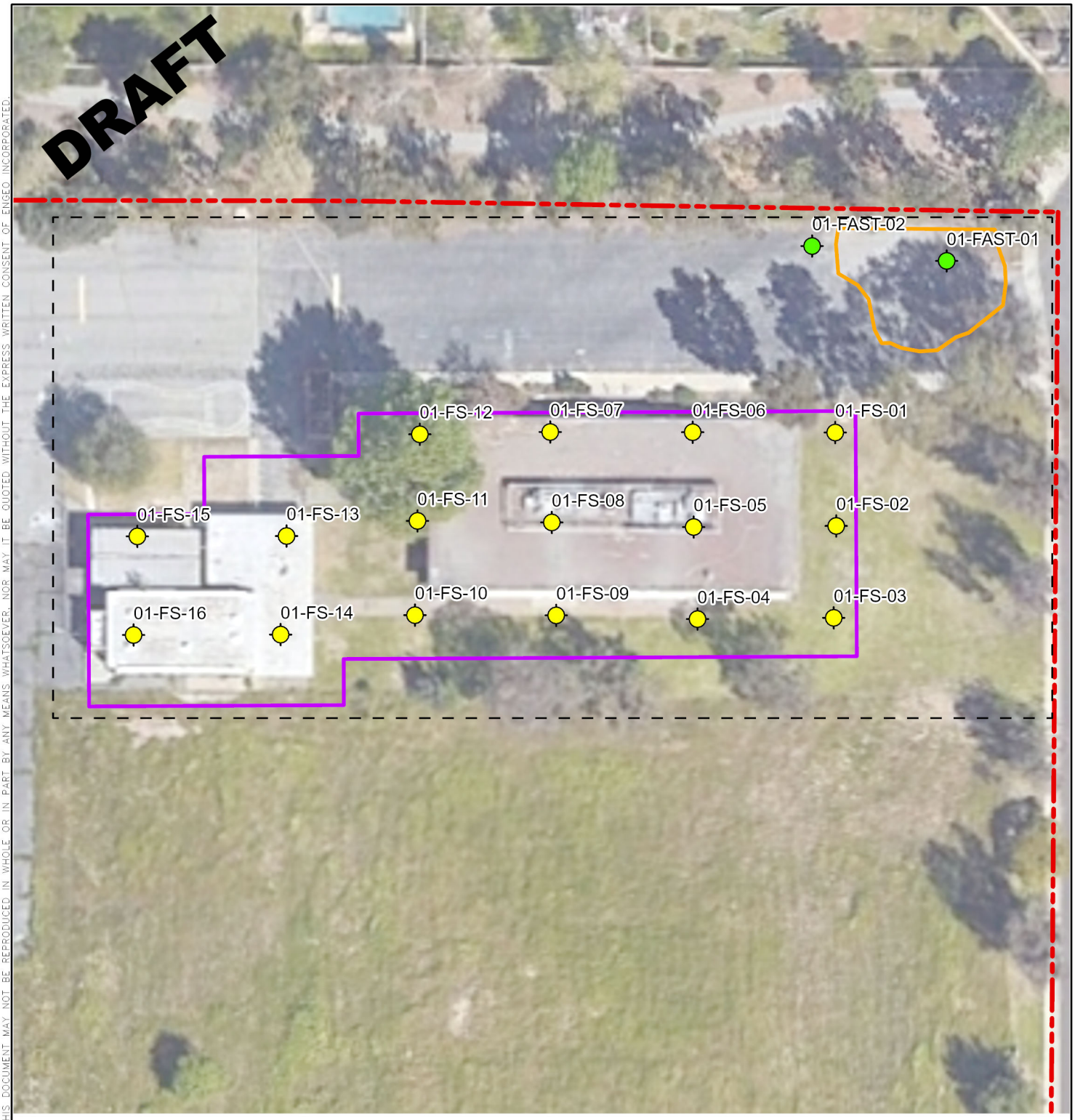
CLAREMONT, CALIFORNIA

PROJECT NO. :	16664.000.000
SCALE:	AS SHOWN
DRAWN BY: MAT	CHECKED BY: SPM

FIGURE NO. 2

PATH: G:\DRAFTING\PROJECTS_16000 TO 17999\16664\16664000000\ENVIRONMENTAL\ESA_LA_PUERTA\16664_ESA_LA_PUERTA_.APRX
USER: MTORRES

ORIGINAL FIGURE PRINTED IN COLOR



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- PROJECT SITE
- AREA OF FORMER STRUCTURES
- AREA OF PREVIOUS EXCAVATION
- 01-FAST-01 — SOILS SAMPLES AT 1', 2.5', 5', AND 10' BGS (ENGEO; DECEMBER, 2019)
- 01-FS-16 — SOILS SAMPLES AT 0' AND 3' BGS (ENGEO; DECEMBER, 2019)

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BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE

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INSET 1: SAMPLE PLAN FOR FORMER AST AND FORMER STRUCTURES
2475 FORBES AVENUE, FORMER LA PUERTA SCHOOL
CLAREMONT, CALIFORNIA

PROJECT NO. : 16664.000.000
SCALE: AS SHOWN
DRAWN BY: MAT CHECKED BY: SPM

FIGURE NO. 3

F4-12

ORIGINAL FIGURE PRINTED IN COLOR

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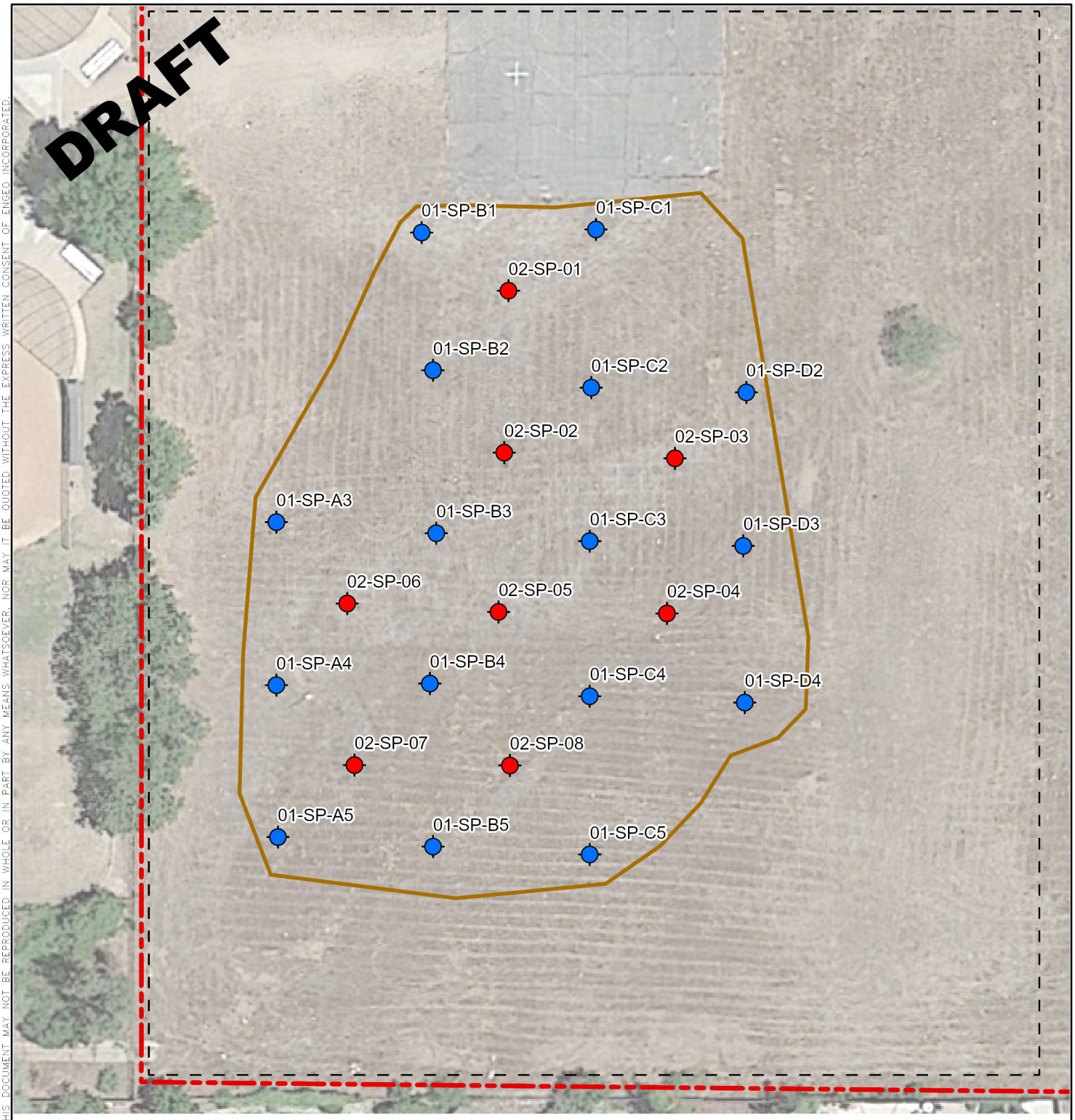

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FEET

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- PROJECT SITE
- STOCKPILE
- STOCKPILE SOIL SAMPLE COLLECTED FROM 1' BGS (ENGEO, DECEMBER 2019)
- STOCKPILE SOIL SAMPLE COLLECTED FROM 1' BGS (ENGEO, JANUARY 2020)

BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2020

ENGEO Expect Excellence

INSET 2: SAMPLE PLAN FOR EXISTING STOCKPILE
2475 FORBES AVENUE, FORMER LA PUERTA SCHOOL
CLAREMONT, CALIFORNIA

PROJECT NO. :	16664.000.000
SCALE:	AS SHOWN
DRAWN BY: MAT	CHECKED BY: SPM

FIGURE NO. 4

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USER: JVERGARA

ORIGINAL FIGURE PRINTED IN COLOR

APPENDIX A

Laboratory Analytical Report
Former AST and Former Structures – Northeast Area

Enthalpy Analytical, LLC

16664.000.000
February 4, 2020

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: ENGEO Inc.
Address: 6 Morgan, Suite 162
Irvine, CA 92618-1922

Attn: Adrianna Lundberg

Comments: Former La Puerta School
16664.000.000

Lab Request: 423295
Report Date: 01/13/2020
Date Received: 12/30/2019
Client ID: 15790

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
423295-005	4-pt composite 01-FS-01, 02, 05, 06@0
423295-010	4-pt composite 01-FS-01, 02, 05, 06@3
423295-015	4-pt composite 01-FS-03, 04, 08, 09@0
423295-020	4-pt composite 01-FS-03, 04, 08, 09@3
423295-025	4-pt composite 01-FS-07, 10, 11, 12@0
423295-030	4-pt composite 01-FS-07, 10, 11, 12@3
423295-035	4-pt composite 01-FS-13, 14, 15, 16@0
423295-040	4-pt composite 01-FS-13, 14, 15, 16@3
423295-041	01-FAST-01@1
423295-042	01-FAST-01@2.5
423295-043	01-FAST-01@5
423295-044	01-FAST-01@10
423295-045	01-FAST-02@1
423295-046	01-FAST-02@2.5
423295-047	01-FAST-02@5
423295-048	01-FAST-02@10

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Diane M. Galvan

Report Review performed by: Diane Galvan, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date received.

ACCREDITED IN ACCORDANCE WITH nelac

Detections Summary

Sample #: 423295-005 **Client Sample #:** 4-pt composite 01-FS-01, 02, 05,

No analyte detected

Sample #: 423295-010 **Client Sample #:** 4-pt composite 01-FS-01, 02, 05,

No analyte detected

Sample #: 423295-015 **Client Sample #:** 4-pt composite 01-FS-03, 04, 08,

No analyte detected

Sample #: 423295-020 **Client Sample #:** 4-pt composite 01-FS-03, 04, 08,

No analyte detected

Sample #: 423295-025 **Client Sample #:** 4-pt composite 01-FS-07, 10, 11,

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8081A	4,4'-DDT	5.1	1	5	ug/Kg	

Sample #: 423295-030 **Client Sample #:** 4-pt composite 01-FS-07, 10, 11,

No analyte detected

Sample #: 423295-035 **Client Sample #:** 4-pt composite 01-FS-13, 14, 15,

No analyte detected

Sample #: 423295-040 **Client Sample #:** 4-pt composite 01-FS-13, 14, 15,

No analyte detected

Sample #: 423295-041 **Client Sample #:** 01-FAST-01@1

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Arsenic	2.66	1	1	mg/Kg	

Sample #: 423295-042 **Client Sample #:** 01-FAST-01@2.5

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Arsenic	1.40	1	1	mg/Kg	

Sample #: 423295-043 **Client Sample #:** 01-FAST-01@5

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Arsenic	1.63	1	1	mg/Kg	

Sample #: 423295-044 **Client Sample #:** 01-FAST-01@10

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Arsenic	2.33	1	1	mg/Kg	
EPA 8015M	TPH (C13 to C28) (SGT)	28.1	1	10	mg/Kg	
EPA 8015M	TPH (C29 to C 40) (SGT)	109	1	20	mg/Kg	

Sample #: 423295-045 **Client Sample #:** 01-FAST-02@1

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Arsenic	6.15	1	1	mg/Kg	
EPA 8015M	TPH (C13 to C28) (SGT)	19.0	1	10	mg/Kg	
EPA 8015M	TPH (C29 to C 40) (SGT)	69.0	1	20	mg/Kg	

Detections Summary

Sample #: **423295-046** **Client Sample #:** 01-FAST-02@2.5

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Arsenic	4.31	1	1	mg/Kg	

Sample #: **423295-047** **Client Sample #:** 01-FAST-02@5

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Arsenic	3.57	1	1	mg/Kg	

Sample #: **423295-048** **Client Sample #:** 01-FAST-02@10

No analyte detected

Matrix: Solid **Client:** ENGEO Inc. **Collector:**
Sampled: 12/30/2019 **Site:**
Sample #: **423295-005** **Client Sample #:** 4-pt composite 01-FS-01, 02, 05, 06 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213158		
4,4'-DDD	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
4,4'-DDE	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
4,4'-DDT	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
a-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Aldrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
b-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Chlordane (technical)	ND	1	50	ug/Kg	01/02/20	01/04/20	MTS	
d-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Dieldrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan I	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan II	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan sulfate	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin aldehyde	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin Ketone	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Heptachlor	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Heptachlor epoxide	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Methoxychlor	ND	1	10	ug/Kg	01/02/20	01/04/20	MTS	
Toxaphene	ND	1	100	ug/Kg	01/02/20	01/04/20	MTS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*57*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*65*	*50-150*	

Matrix: Solid **Client:** ENGEO Inc. **Collector:**
Sampled: 12/30/2019 **Site:**
Sample #: **423295-010** **Client Sample #:** 4-pt composite 01-FS-01, 02, 05, 06 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213158		
4,4'-DDD	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
4,4'-DDE	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
4,4'-DDT	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
a-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Aldrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
b-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Chlordane (technical)	ND	1	50	ug/Kg	01/02/20	01/04/20	MTS	
d-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Dieldrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan I	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan II	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan sulfate	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin aldehyde	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin Ketone	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Heptachlor	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Heptachlor epoxide	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Methoxychlor	ND	1	10	ug/Kg	01/02/20	01/04/20	MTS	
Toxaphene	ND	1	100	ug/Kg	01/02/20	01/04/20	MTS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*57*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*65*	*50-150*	

Matrix: Solid **Client:** ENGEO Inc. **Collector:**
Sampled: 12/30/2019 **Site:**
Sample #: **423295-015** **Client Sample #:** 4-pt composite 01-FS-03, 04, 08, 09 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1213158		
4,4'-DDD	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
4,4'-DDE	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
4,4'-DDT	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
a-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Aldrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
b-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Chlordane (technical)	ND	1	50	ug/Kg	01/02/20	01/04/20	MTS	
d-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Dieldrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan I	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan II	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan sulfate	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin aldehyde	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin Ketone	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Heptachlor	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Heptachlor epoxide	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Methoxychlor	ND	1	10	ug/Kg	01/02/20	01/04/20	MTS	
Toxaphene	ND	1	100	ug/Kg	01/02/20	01/04/20	MTS	

Surrogate	% Recovery	Limits	Notes
Decachlorobiphenyl DCB (SUR)	*57*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*63*	*50-150*	

Matrix: Solid **Client:** ENGEO Inc. **Collector:**
Sampled: 12/30/2019 **Site:**
Sample #: **423295-020** **Client Sample #:** 4-pt composite 01-FS-03, 04, 08, 09 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1213158		
4,4'-DDD	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
4,4'-DDE	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
4,4'-DDT	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
a-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Aldrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
b-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Chlordane (technical)	ND	1	50	ug/Kg	01/02/20	01/04/20	MTS	
d-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Dieldrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan I	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan II	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan sulfate	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin aldehyde	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin Ketone	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Heptachlor	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Heptachlor epoxide	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Methoxychlor	ND	1	10	ug/Kg	01/02/20	01/04/20	MTS	
Toxaphene	ND	1	100	ug/Kg	01/02/20	01/04/20	MTS	

Surrogate	% Recovery	Limits	Notes
Decachlorobiphenyl DCB (SUR)	*52*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*62*	*50-150*	

Matrix: Solid **Client:** ENGEO Inc. **Collector:**
Sampled: 12/30/2019 **Site:**
Sample #: **423295-025** **Client Sample #:** 4-pt composite 01-FS-07, 10, 11, 12 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213158		
4,4'-DDD	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
4,4'-DDE	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
4,4'-DDT	**5.1**	1	5	ug/Kg	01/02/20	01/04/20	MTS	
a-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Aldrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
b-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Chlordane (technical)	ND	1	50	ug/Kg	01/02/20	01/04/20	MTS	
d-BHC	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Dieldrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan I	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan II	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endosulfan sulfate	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin aldehyde	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Endrin Ketone	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Heptachlor	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Heptachlor epoxide	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	01/02/20	01/04/20	MTS	
Methoxychlor	ND	1	10	ug/Kg	01/02/20	01/04/20	MTS	
Toxaphene	ND	1	100	ug/Kg	01/02/20	01/04/20	MTS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*56*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*69*	*50-150*	

Matrix: Solid **Client:** ENGEO Inc. **Collector:**
Sampled: 12/30/2019 **Site:**
Sample #: **423295-030** **Client Sample #:** 4-pt composite 01-FS-07, 10, 11, 12 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213248		
4,4'-DDD	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
4,4'-DDE	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
4,4'-DDT	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
a-BHC	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Aldrin	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
b-BHC	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Chlordane (technical)	ND	1	50	ug/Kg	01/06/20	01/08/20	MTS	
d-BHC	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Dieldrin	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endosulfan I	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endosulfan II	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endosulfan sulfate	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endrin	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endrin aldehyde	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endrin Ketone	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Heptachlor	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Heptachlor epoxide	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Methoxychlor	ND	1	10	ug/Kg	01/06/20	01/08/20	MTS	
Toxaphene	ND	1	100	ug/Kg	01/06/20	01/08/20	MTS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*69*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*71*	*50-150*	

Matrix: Solid **Client:** ENGEO Inc. **Collector:**
Sampled: 12/30/2019 **Site:**
Sample #: **423295-035** **Client Sample #:** 4-pt composite 01-FS-13, 14, 15, 16 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1213248		
4,4'-DDD	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
4,4'-DDE	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
4,4'-DDT	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
a-BHC	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Aldrin	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
b-BHC	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Chlordane (technical)	ND	1	50	ug/Kg	01/06/20	01/08/20	MTS	
d-BHC	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Dieldrin	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endosulfan I	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endosulfan II	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endosulfan sulfate	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endrin	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endrin aldehyde	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endrin Ketone	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Heptachlor	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Heptachlor epoxide	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Methoxychlor	ND	1	10	ug/Kg	01/06/20	01/08/20	MTS	
Toxaphene	ND	1	100	ug/Kg	01/06/20	01/08/20	MTS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*57*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*45*	*50-150*	*S*

Matrix: Solid **Client:** ENGEO Inc. **Collector:**
Sampled: 12/30/2019 **Site:**
Sample #: **423295-040** **Client Sample #:** 4-pt composite 01-FS-13, 14, 15, 16 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1213248		
4,4'-DDD	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
4,4'-DDE	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
4,4'-DDT	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
a-BHC	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Aldrin	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
b-BHC	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Chlordane (technical)	ND	1	50	ug/Kg	01/06/20	01/08/20	MTS	
d-BHC	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Dieldrin	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endosulfan I	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endosulfan II	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endosulfan sulfate	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endrin	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endrin aldehyde	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Endrin Ketone	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Heptachlor	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Heptachlor epoxide	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	01/06/20	01/08/20	MTS	
Methoxychlor	ND	1	10	ug/Kg	01/06/20	01/08/20	MTS	
Toxaphene	ND	1	100	ug/Kg	01/06/20	01/08/20	MTS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*65*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*62*	*50-150*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:15	**Site:**			
Sample #:	**423295-041**	**Client Sample #:**	01-FAST-01@1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1213108		
Arsenic	**2.66**	1	1	mg/Kg		01/07/20	SBW	
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209900		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/31/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*100*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213242		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg	01/06/20	01/07/20	MTS	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg	01/06/20	01/07/20	MTS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*105*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213082		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/31/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/31/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/31/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:15	**Site:**			
Sample #:	**423295-041**	**Client Sample #:**	01-FAST-01@1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Dibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/31/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/31/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/31/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*98*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*101*	*70-145*	
Dibromofluoromethane (SUR)	*99*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Matrix: Solid	**Client:** ENGEO Inc.		**Collector:**		
Sampled: 12/30/2019 07:20	**Site:**				
Sample #: **423295-042**	**Client Sample #:** 01-FAST-01@2.5		**Sample Type:**		

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1213108		
Arsenic	**1.40**	1	1	mg/Kg		01/07/20	SBW	
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209900		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/31/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*65*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213242		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg	01/06/20	01/07/20	MTS	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg	01/06/20	01/07/20	MTS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*68*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213082		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/31/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/31/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/31/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:20	**Site:**			
Sample #:	**423295-042**	**Client Sample #:**	01-FAST-01@2.5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Dibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/31/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/31/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/31/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*103*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*119*	*70-145*	
Dibromofluoromethane (SUR)	*102*	*70-145*	
Toluene-d8 (SUR)	*104*	*70-145*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:25	**Site:**			
Sample #:	**423295-043**	**Client Sample #:**	01-FAST-01@5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1213108		
Arsenic	**1.63**	1	1	mg/Kg		01/07/20	SBW	
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209900		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/31/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213242		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg	01/06/20	01/07/20	MTS	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg	01/06/20	01/07/20	MTS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*00*		*50-150*	*S*	*sample difficult to filter through Silica gel.*			
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213082		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/31/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/31/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/31/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:25	**Site:**			
Sample #:	**423295-043**	**Client Sample #:**	01-FAST-01@5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Dibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/31/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/31/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/31/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*100*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*107*	*70-145*	
Dibromofluoromethane (SUR)	*102*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:35	**Site:**			
Sample #:	**423295-044**	**Client Sample #:**	01-FAST-01@10	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1213108		
Arsenic	**2.33**	1	1	mg/Kg		01/07/20	SBW	
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209900		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/31/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213242		
TPH (C13 to C28) (SGT)	**28.1**	1	10	mg/Kg	01/06/20	01/07/20	MTS	
TPH (C29 to C 40) (SGT)	**109**	1	20	mg/Kg	01/06/20	01/07/20	MTS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*67*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213082		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/31/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/31/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/31/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:35	**Site:**			
Sample #:	**423295-044**	**Client Sample #:**	01-FAST-01@10	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Dibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/31/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/31/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/31/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*98*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*102*	*70-145*	
Dibromofluoromethane (SUR)	*97*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:45	**Site:**			
Sample #:	**423295-045**	**Client Sample #:**	01-FAST-02@1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1213108		
Arsenic	**6.15**	1	1	mg/Kg		01/07/20	SBW	
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209900		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/31/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*90*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213242		
TPH (C13 to C28) (SGT)	**19.0**	1	10	mg/Kg	01/06/20	01/07/20	MTS	
TPH (C29 to C 40) (SGT)	**69.0**	1	20	mg/Kg	01/06/20	01/07/20	MTS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*110*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213082		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/31/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/31/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/31/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:45	**Site:**			
Sample #:	**423295-045**	**Client Sample #:**	01-FAST-02@1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Dibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/31/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/31/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/31/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*95*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*103*	*70-145*	
Dibromofluoromethane (SUR)	*99*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:47	**Site:**			
Sample #:	**423295-046**	**Client Sample #:**	01-FAST-02@2.5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1213108		
Arsenic	**4.31**	1	1	mg/Kg		01/07/20	SBW	
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209900		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/31/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213242		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg	01/06/20	01/07/20	MTS	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg	01/06/20	01/07/20	MTS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*121*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213082		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/31/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/31/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/31/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:47	**Site:**			
Sample #:	**423295-046**	**Client Sample #:**	01-FAST-02@2.5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Dibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/31/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/31/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/31/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*96*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*101*	*70-145*	
Dibromofluoromethane (SUR)	*100*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:53	**Site:**			
Sample #:	**423295-047**	**Client Sample #:**	01-FAST-02@5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1213108		
Arsenic	**3.57**	1	1	mg/Kg		01/07/20	SBW	
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209900		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/31/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213242		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg	01/06/20	01/07/20	MTS	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg	01/06/20	01/07/20	MTS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*107*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213082		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/31/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/31/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/31/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:53	**Site:**			
Sample #:	**423295-047**	**Client Sample #:**	01-FAST-02@5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Dibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/31/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/31/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/31/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*99*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*100*	*70-145*	
Dibromofluoromethane (SUR)	*100*	*70-145*	
Toluene-d8 (SUR)	*97*	*70-145*	

Matrix: Solid	**Client:** ENGEO Inc.		**Collector:**		
Sampled: 12/30/2019 07:57	**Site:**				
Sample #: **423295-048**	**Client Sample #:** 01-FAST-02@10		**Sample Type:**		

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1213108		
Arsenic	ND	1	1	mg/Kg		01/07/20	SBW	
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209900		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/31/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*100*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213242		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg	01/06/20	01/07/20	MTS	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg	01/06/20	01/07/20	MTS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*56*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213082		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/31/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/31/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/31/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/31/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/31/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/31/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/31/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/31/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	
Sampled:	12/30/2019 07:57	**Site:**			
Sample #:	**423295-048**	**Client Sample #:**	01-FAST-02@10	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Dibromomethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/31/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/31/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/31/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/31/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/31/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/31/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/31/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/31/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/31/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*99*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*101*	*70-145*	
Dibromofluoromethane (SUR)	*101*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

QCBatchID: QC1209900 **Analyst:** sandyw **Method:** EPA 8015B

Matrix: Solid **Analyzed:** 12/31/2019 **Instrument:** VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1209900MB1						
TPH (C6 to C12)	ND	mg/Kg		3		
TPH Gasoline	ND	mg/Kg		3		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1209900LCS1											
TPH Gasoline	5		5.5		mg/Kg	110			70-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1209900MS1, QC1209900MSD1												**Source: 423096-001**
TPH Gasoline	ND	5	5	4.8	4.8	mg/Kg	96	96	0.0	70-130	20	

QCBatchID: QC1213082	**Analyst:** nicollez	**Method:** EPA 8260B	
Matrix: Solid	**Analyzed:** 12/31/2019	**Instrument:** VOA-MS (group)	

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1213082MB1						
1,1,1,2-Tetrachloroethane	ND	ug/Kg		5		
1,1,1-Trichloroethane	ND	ug/Kg		5		
1,1,2,2-Tetrachloroethane	ND	ug/Kg		5		
1,1,2-Trichloroethane	ND	ug/Kg		5		
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		5		
1,1-Dichloroethane	ND	ug/Kg		5		
1,1-Dichloroethene	ND	ug/Kg		5		
1,1-Dichloropropene	ND	ug/Kg		5		
1,2,3-Trichlorobenzene	ND	ug/Kg		5		
1,2,3-Trichloropropane	ND	ug/Kg		5		
1,2,4-Trichlorobenzene	ND	ug/Kg		5		
1,2,4-Trimethylbenzene	ND	ug/Kg		5		
1,2-Dibromo-3-chloropropane	ND	ug/Kg		5		
1,2-Dibromoethane	ND	ug/Kg		5		
1,2-Dichlorobenzene	ND	ug/Kg		5		
1,2-Dichloroethane	ND	ug/Kg		5		
1,2-Dichloropropane	ND	ug/Kg		5		
1,3,5-Trimethylbenzene	ND	ug/Kg		5		
1,3-Dichlorobenzene	ND	ug/Kg		5		
1,3-Dichloropropane	ND	ug/Kg		5		
1,4-Dichlorobenzene	ND	ug/Kg		5		
2,2-Dichloropropane	ND	ug/Kg		5		
2-Butanone (MEK)	ND	ug/Kg		100		
2-Chlorotoluene	ND	ug/Kg		5		
4-Chlorotoluene	ND	ug/Kg		5		
4-Isopropyltoluene	ND	ug/Kg		5		
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		5		
Acetone	ND	ug/Kg		100		
Allyl Chloride	ND	ug/Kg		5		
Benzene	ND	ug/Kg		5		
Bromobenzene	ND	ug/Kg		5		
Bromochloromethane	ND	ug/Kg		5		
Bromodichloromethane	ND	ug/Kg		5		
Bromoform	ND	ug/Kg		5		
Bromomethane	ND	ug/Kg		5		
Carbon Tetrachloride	ND	ug/Kg		5		
Chlorobenzene	ND	ug/Kg		5		
Chlorodibromomethane	ND	ug/Kg		5		
Chloroethane	ND	ug/Kg		5		
Chloroform	ND	ug/Kg		5		
Chloromethane	ND	ug/Kg		5		
cis-1,2-Dichloroethene	ND	ug/Kg		5		
cis-1,3-dichloropropene	ND	ug/Kg		5		
cis-1,4-dichloro-2-butene	ND	ug/Kg		5		
Dibromomethane	ND	ug/Kg		5		
Dichlorodifluoromethane	ND	ug/Kg		5		
Di-isopropyl ether (DIPE)	ND	ug/Kg		5		
Ethylbenzene	ND	ug/Kg		5		
Ethyl-tertbutylether (ETBE)	ND	ug/Kg		5		
Hexachlorobutadiene	ND	ug/Kg		5		
Isopropylbenzene	ND	ug/Kg		5		
m and p-Xylene	ND	ug/Kg		5		

QCBatchID: QC1213082 **Analyst:** nicollez **Method:** EPA 8260B

Matrix: Solid **Analyzed:** 12/31/2019 **Instrument:** VOA-MS (group)

Analyte	Blank Result	Units		RDL	Notes
QC1213082MB1					
Methylene chloride	ND	ug/Kg		5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg		5	
Naphthalene	ND	ug/Kg		5	
N-butylbenzene	ND	ug/Kg		5	
N-propylbenzene	ND	ug/Kg		5	
o-Xylene	ND	ug/Kg		5	
Sec-butylbenzene	ND	ug/Kg		5	
Styrene	ND	ug/Kg		5	
t-Butyl alcohol (TBA)	ND	ug/Kg		10	
Tert-amylmethylether (TAME)	ND	ug/Kg		5	
Tert-butylbenzene	ND	ug/Kg		5	
Tetrachloroethene	ND	ug/Kg		5	
Toluene	ND	ug/Kg		5	
trans-1,2-dichloroethene	ND	ug/Kg		5	
trans-1,3-dichloropropene	ND	ug/Kg		5	
trans-1,4-dichloro-2-butene	ND	ug/Kg		5	
Trichloroethene	ND	ug/Kg		5	
Trichlorofluoromethane	ND	ug/Kg		5	
Vinyl Chloride	ND	ug/Kg		5	
Xylenes (Total)	ND	ug/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213082LCS1											
1,1-Dichloroethene	50		62		ug/Kg	124			59-172		
Benzene	50		59		ug/Kg	118			62-137		
Chlorobenzene	50		60		ug/Kg	120			60-133		
Methyl-t-butyl Ether (MTBE)	50		53		ug/Kg	106			62-137		
Toluene	50		60		ug/Kg	120			59-139		
Trichloroethene	50		59		ug/Kg	118			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213082MS1, QC1213082MSD1												**Source: 423329-002**
1,1-Dichloroethene	ND	50	50	65	60	ug/Kg	130	120	8.0	59-172	22	
Benzene	ND	50	50	58	55	ug/Kg	116	110	5.3	62-137	24	
Chlorobenzene	ND	50	50	57	54	ug/Kg	114	108	5.4	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	51	51	ug/Kg	102	102	0.0	62-137	21	
Toluene	ND	50	50	57	55	ug/Kg	114	110	3.6	59-139	21	
Trichloroethene	ND	50	50	56	54	ug/Kg	112	108	3.6	66-142	21	

QCBatchID: QC1213108 **Analyst:** rvenegas **Method:** EPA 6010B

Matrix: Solid **Analyzed:** 12/31/2019 **Instrument:** AAICP (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213108MB1					
Antimony	ND	mg/Kg		3	
Arsenic	ND	mg/Kg		1	
Barium	ND	mg/Kg		1	
Beryllium	ND	mg/Kg		0.5	
Cadmium	ND	mg/Kg		0.5	
Chromium	ND	mg/Kg		1	
Cobalt	ND	mg/Kg		0.5	
Copper	ND	mg/Kg		1	
Lead	ND	mg/Kg		1	
Molybdenum	ND	mg/Kg		1	
Nickel	ND	mg/Kg		1.5	
Selenium	ND	mg/Kg		3	
Silver	ND	mg/Kg		0.5	
Thallium	ND	mg/Kg		3	
Vanadium	ND	mg/Kg		0.5	
Zinc	ND	mg/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213108LCS1											
Antimony	100		128		mg/Kg	128			80-120		L
Arsenic	100		96.9		mg/Kg	97			80-120		
Barium	100		106		mg/Kg	106			80-120		
Beryllium	100		95.5		mg/Kg	96			80-120		
Cadmium	100		99.1		mg/Kg	99			80-120		
Chromium	100		96.5		mg/Kg	97			80-120		
Cobalt	100		104		mg/Kg	104			80-120		
Copper	100		98.1		mg/Kg	98			80-120		
Lead	100		102		mg/Kg	102			80-120		
Molybdenum	100		96.1		mg/Kg	96			80-120		
Nickel	100		108		mg/Kg	108			80-120		
Selenium	100		86.9		mg/Kg	87			80-120		
Silver	100		93.0		mg/Kg	93			80-120		
Thallium	100		100		mg/Kg	100			80-120		
Vanadium	100		98.0		mg/Kg	98			80-120		
Zinc	100		103		mg/Kg	103			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213108MS1, QC1213108MSD1												**Source: 423329-001**
Antimony	ND	100	100	61.7	69.8	mg/Kg	62	70	12.3	75-125	20	M
Arsenic	1.27	100	100	103	110	mg/Kg	102	109	6.6	75-125	20	
Barium	94.7	100	100	261	271	mg/Kg	166	176	3.8	75-125	20	M
Beryllium	ND	100	100	98.2	105	mg/Kg	98	105	6.7	75-125	20	
Cadmium	0.53	100	100	102	110	mg/Kg	101	109	7.5	75-125	20	
Chromium	7.38	100	100	112	117	mg/Kg	105	110	4.4	75-125	20	
Cobalt	6.60	100	100	113	123	mg/Kg	106	116	8.5	75-125	20	
Copper	5.74	100	100	112	113	mg/Kg	106	107	0.9	75-125	20	
Lead	7.40	100	100	112	121	mg/Kg	105	114	7.7	75-125	20	
Molybdenum	1.30	100	100	98.6	106	mg/Kg	97	105	7.2	75-125	20	

QCBatchID: QC1213108 **Analyst:** rvenegas **Method:** EPA 6010B

Matrix: Solid **Analyzed:** 12/31/2019 **Instrument:** AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213108MS1, QC1213108MSD1												**Source: 423329-001**
Nickel	5.06	100	100	115	122	mg/Kg	110	117	5.9	75-125	20	
Selenium	1.56	100	100	97.0	104	mg/Kg	95	102	7.0	75-125	20	
Silver	ND	100	100	95.7	102	mg/Kg	96	102	6.4	75-125	20	
Thallium	ND	100	100	96.4	105	mg/Kg	96	105	8.5	75-125	20	
Vanadium	20.5	100	100	138	147	mg/Kg	118	127	6.3	75-125	20	M
Zinc	31.3	100	100	144	151	mg/Kg	113	120	4.7	75-125	20	

QCBatchID: QC1213158 **Analyst:** bmorris **Method:** EPA 8081A

Matrix: Solid **Analyzed:** 01/02/2020 **Instrument:** SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213158MB1					
4,4'-DDD	ND	ug/Kg		5	
4,4'-DDE	ND	ug/Kg		5	
4,4'-DDT	ND	ug/Kg		5	
a-BHC	ND	ug/Kg		5	
Aldrin	ND	ug/Kg		5	
b-BHC	ND	ug/Kg		5	
Chlordane (technical)	ND	ug/Kg		50	
d-BHC	ND	ug/Kg		5	
Dieldrin	ND	ug/Kg		5	
Endosulfan I	ND	ug/Kg		5	
Endosulfan II	ND	ug/Kg		5	
Endosulfan sulfate	ND	ug/Kg		5	
Endrin	ND	ug/Kg		5	
Endrin aldehyde	ND	ug/Kg		5	
Endrin Ketone	ND	ug/Kg		5	
Heptachlor	ND	ug/Kg		5	
Heptachlor epoxide	ND	ug/Kg		5	
Lindane (Gamma-BHC)	ND	ug/Kg		5	
Methoxychlor	ND	ug/Kg		10	
Toxaphene	ND	ug/Kg		100	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213158LCS1											
4,4'-DDD	50		55		ug/Kg	110			43-172		
4,4'-DDE	50		56		ug/Kg	112			44-163		
4,4'-DDT	50		62		ug/Kg	124			40-158		
a-BHC	50		58		ug/Kg	116			45-150		
Aldrin	50		54		ug/Kg	108			46-142		
b-BHC	50		54		ug/Kg	108			42-156		
d-BHC	50		60		ug/Kg	120			37-161		
Dieldrin	50		53		ug/Kg	106			47-151		
Endosulfan I	50		54		ug/Kg	108			47-141		
Endosulfan II	50		53		ug/Kg	106			44-156		
Endosulfan sulfate	50		55		ug/Kg	110			43-157		
Endrin	50		57		ug/Kg	114			47-160		
Endrin aldehyde	50		40		ug/Kg	80			32-127		
Endrin Ketone	50		52		ug/Kg	104			48-159		
Heptachlor	50		50		ug/Kg	100			50-144		
Heptachlor epoxide	50		52		ug/Kg	104			48-145		
Lindane (Gamma-BHC)	50		59		ug/Kg	118			47-151		
Methoxychlor	50		64		ug/Kg	128			36-182		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213158MS1, QC1213158MSD1												**Source: 423096-017**
4,4'-DDD	ND	50	50	55	52	ug/Kg	110	104	5.6	43-172	20	
4,4'-DDE	ND	50	50	59	54	ug/Kg	118	108	8.8	44-163	20	
4,4'-DDT	ND	50	50	65	61	ug/Kg	130	122	6.3	40-158	20	
a-BHC	ND	50	50	57	55	ug/Kg	114	110	3.6	45-150	20	

QCBatchID: QC1213158 **Analyst:** bmorris **Method:** EPA 8081A

Matrix: Solid **Analyzed:** 01/02/2020 **Instrument:** SVOA-GC (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213158MS1, QC1213158MSD1												**Source: 423096-017**
Aldrin	ND	50	50	54	51	ug/Kg	108	102	5.7	46-142	20	
b-BHC	ND	50	50	52	50	ug/Kg	104	100	3.9	42-156	20	
d-BHC	ND	50	50	60	58	ug/Kg	120	116	3.4	37-161	20	
Dieldrin	ND	50	50	53	51	ug/Kg	106	102	3.8	47-151	20	
Endosulfan I	ND	50	50	54	51	ug/Kg	108	102	5.7	47-141	20	
Endosulfan II	ND	50	50	54	51	ug/Kg	108	102	5.7	44-156	20	
Endosulfan sulfate	ND	50	50	55	52	ug/Kg	110	104	5.6	43-157	20	
Endrin	ND	50	50	57	54	ug/Kg	114	108	5.4	47-160	20	
Endrin aldehyde	ND	50	50	43	41	ug/Kg	86	82	4.8	32-127	20	
Endrin Ketone	ND	50	50	52	49	ug/Kg	104	98	5.9	48-159	20	
Heptachlor	ND	50	50	50	48	ug/Kg	100	96	4.1	50-144	20	
Heptachlor epoxide	ND	50	50	51	49	ug/Kg	102	98	4.0	48-145	20	
Lindane (Gamma-BHC)	ND	50	50	57	55	ug/Kg	114	110	3.6	47-151	20	
Methoxychlor	ND	50	50	66	63	ug/Kg	132	126	4.7	36-182	20	

QCBatchID: QC1213242 **Analyst:** bmorris **Method:** EPA 8015M

Matrix: Solid **Analyzed:** 01/06/2020 **Instrument:** SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1213242MB1						
TPH (C10 to C28) (SGT)	ND	mg/Kg		10		
TPH (C13 to C28) (SGT)	ND	mg/Kg		10		
TPH (C29 to C 40) (SGT)	ND	mg/Kg		20		
TPH (C6 to C12) (SGT)	ND	mg/Kg		10		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213242LCS1											
TPH (C10 to C28) (SGT)	250		202		mg/Kg	81			36-138		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213242MS1, QC1213242MSD1												**Source: 423295-042**
TPH (C10 to C28) (SGT)	ND	250	250	328	349	mg/Kg	131	140	6.2	70-130	30	M

QCBatchID: QC1213248 **Analyst:** bmorris **Method:** EPA 8081A

Matrix: Solid **Analyzed:** 01/06/2020 **Instrument:** SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213248MB1					
4,4'-DDD	ND	ug/Kg		5	
4,4'-DDE	ND	ug/Kg		5	
4,4'-DDT	ND	ug/Kg		5	
a-BHC	ND	ug/Kg		5	
Aldrin	ND	ug/Kg		5	
b-BHC	ND	ug/Kg		5	
Chlordane (technical)	ND	ug/Kg		50	
d-BHC	ND	ug/Kg		5	
Dieldrin	ND	ug/Kg		5	
Endosulfan I	ND	ug/Kg		5	
Endosulfan II	ND	ug/Kg		5	
Endosulfan sulfate	ND	ug/Kg		5	
Endrin	ND	ug/Kg		5	
Endrin aldehyde	ND	ug/Kg		5	
Endrin Ketone	ND	ug/Kg		5	
Heptachlor	ND	ug/Kg		5	
Heptachlor epoxide	ND	ug/Kg		5	
Lindane (Gamma-BHC)	ND	ug/Kg		5	
Methoxychlor	ND	ug/Kg		10	
Toxaphene	ND	ug/Kg		100	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213248LCS1											
4,4'-DDD	50		40		ug/Kg	80			43-172		
4,4'-DDE	50		42		ug/Kg	84			44-163		
4,4'-DDT	50		47		ug/Kg	94			40-158		
a-BHC	50		45		ug/Kg	90			45-150		
Aldrin	50		38		ug/Kg	76			46-142		
b-BHC	50		38		ug/Kg	76			42-156		
d-BHC	50		41		ug/Kg	82			37-161		
Dieldrin	50		41		ug/Kg	82			47-151		
Endosulfan I	50		42		ug/Kg	84			47-141		
Endosulfan II	50		40		ug/Kg	80			44-156		
Endosulfan sulfate	50		41		ug/Kg	82			43-157		
Endrin	50		44		ug/Kg	88			47-160		
Endrin aldehyde	50		30		ug/Kg	60			32-127		
Endrin Ketone	50		39		ug/Kg	78			48-159		
Heptachlor	50		40		ug/Kg	80			50-144		
Heptachlor epoxide	50		39		ug/Kg	78			48-145		
Lindane (Gamma-BHC)	50		43		ug/Kg	86			47-151		
Methoxychlor	50		50		ug/Kg	100			36-182		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213248MS1, QC1213248MSD1												**Source: 423295-030**
4,4'-DDD	ND	50	50	33	37	ug/Kg	66	74	11.4	43-172	20	
4,4'-DDE	ND	50	50	35	39	ug/Kg	70	78	10.8	44-163	20	
4,4'-DDT	ND	50	50	38	44	ug/Kg	76	88	14.6	40-158	20	
a-BHC	ND	50	50	39	42	ug/Kg	78	84	7.4	45-150	20	

QCBatchID: QC1213248 **Analyst:** bmorris **Method:** EPA 8081A

Matrix: Solid **Analyzed:** 01/06/2020 **Instrument:** SVOA-GC (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213248MS1, QC1213248MSD1												**Source: 423295-030**
Aldrin	ND	50	50	33	35	ug/Kg	66	70	5.9	46-142	20	
b-BHC	ND	50	50	36	36	ug/Kg	72	72	0.0	42-156	20	
d-BHC	ND	50	50	35	39	ug/Kg	70	78	10.8	37-161	20	
Dieldrin	ND	50	50	34	37	ug/Kg	68	74	8.5	47-151	20	
Endosulfan I	ND	50	50	35	38	ug/Kg	70	76	8.2	47-141	20	
Endosulfan II	ND	50	50	33	37	ug/Kg	66	74	11.4	44-156	20	
Endosulfan sulfate	ND	50	50	38	44	ug/Kg	76	88	14.6	43-157	20	
Endrin	ND	50	50	36	40	ug/Kg	72	80	10.5	47-160	20	
Endrin aldehyde	ND	50	50	26	30	ug/Kg	52	60	14.3	32-127	20	
Endrin Ketone	ND	50	50	31	35	ug/Kg	62	70	12.1	48-159	20	
Heptachlor	ND	50	50	35	37	ug/Kg	70	74	5.6	50-144	20	
Heptachlor epoxide	ND	50	50	33	37	ug/Kg	66	74	11.4	48-145	20	
Lindane (Gamma-BHC)	ND	50	50	37	39	ug/Kg	74	78	5.3	47-151	20	
Methoxychlor	ND	50	50	38	43	ug/Kg	76	86	12.3	36-182	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL		Chain of Custody Record		Turn Around Time (Rush by advanced notice only)								
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No: 423295		Standard:	✓	4 Day:		3 Day:				
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 1 of 5		2 Day:		1 Day:		Same Day:				
Billing: Enthalpy Analytical		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other		Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other								
1 Park Plaza, Suite 1000												
Irvine, CA 92614												

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	ENGEO	Name:	Former La Puerta School
Report To:	Adrianna Lundberg	Number:	Northern Area, Former Strucutres
Email:	alundberg@engeo.com	P.O. #:	16664.000.000
Address:	6 Morgan Suite 162	Address:	2475 Forbes Ave
	Irvine, CA		Claremont, CA
Phone:	949.579.2268	Global ID:	
Fax:		Sampled By:	Emma Griffie

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Method 8081 - OCPs	Test Instructions / Comments
1	01-FS-01@0	12/30/19	1018	soil	1 / 2x6	-	X	silica gel cleanup
2	01-FS-02@0	12/30/19	0906	soil	1 / 2x6	-	X	
3	01-FS-05@0	12/30/19	0913	soil	1 / 2x6	-	X	
4	01-FS-06@0	12/30/19	1008	soil	1 / 2x6	-	X	4-pt composite for OCPs
5								
6	01-FS-01@3	12/30/19	1016	soil	1 / 2x6	-	X	
7	01-FS-02@3	12/30/19	0904	soil	1 / 2x6	-	X	
8	01-FS-05@3	12/30/19	0910	soil	1 / 2x6	-	X	
9	01-FS-06@3	12/30/19	1005	soil	1 / 2x6	-	X	
10								

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Emma Z Griffie	Emma Griffie	ENGEO / Staff Geologist	12/30/2019 @ 1204.
[1] Received By:	Christine C.	Christine C.	EA	12/30/19 1205
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL		Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No:	Standard: ✓ 4 Day: 3 Day:
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 2 of 45	2 Day: 1 Day: Same Day:
Billing: Enthalpy Analytical		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other
1 Park Plaza, Suite 1000			
Irvine, CA 92614			

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	ENGEO	Name:	Former La Puerta School
Report To:	Adrianna Lundberg	Number:	Northern Area, Former Strucutres
Email:	alundberg@engeo.com	P.O. #:	16664.000.000
Address:	6 Morgan Suite 162	Address:	2475 Forbes Ave
	Irvine, CA		Claremont, CA
Phone:	949.579.2268	Global ID:	
Fax:		Sampled By:	Emma Griffie

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Method 8081 - OCPs	Test Instructions / Comments
1	01-FS-03@0	12/30/19	0859	soil	1 / 2x6	-	X	
2	01-FS-04@0	12/30/19	0853	soil	1 / 2x6	-	X	
3	01-FS-08@0	12/30/19	0919	soil	1 / 2x6	-	X	
4	01-FS-09@0	12/30/19	0846	soil	1 / 2x6	-	X	4-pt composite for OCPs
5								
6	01-FS-03@3	12/30/19	0857	soil	1 / 2x6	-	X	
7	01-FS-04@3	12/30/19	0852	soil	1 / 2x6	-	X	
8	01-FS-08@3	12/30/19	0917	soil	1 / 2x6	-	X	
9	01-FS-09@3	12/30/19	0844	soil	1 / 2x6	-	X	
10								

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Emma L Griffie	Emma Griffie	ENGEO / Staff Geologist	12/30/2019 C 1204.
[1] Received By:				12/30/19 1205
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL		Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714) 538-1209	ENTHALPY analytical, inc.	Lab No: Page: 3 of 5	Standard: ✓ 4 Day: 3 Day: 2 Day: 1 Day: Same Day:
Billing: Enthalpy Analytical 1 Park Plaza, Suite 1000 Irvine, CA 92614		**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	ENGEO	Name:	Former La Puerta School
Report To:	Adrianna Lundberg	Number:	Northern Area, Former Strucutres
Email:	alundberg@engeo.com	P.O. #:	16664.000.000
Address:	6 Morgan Suite 162	Address:	2475 Forbes Ave
	Irvine, CA		Claremont, CA
Phone:	949.579.2268	Global ID:	
Fax:		Sampled By:	Emma Griffie

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request: Method 8081 - OCPs	Test Instructions / Comments
1	01-FS-07@0	12/30/19	0959	soil	1 / 2x6	-	X	
2	01-FS-10@0	12/30/19	0838	soil	1 / 2x6	-	X	
3	01-FS-11@0	12/30/19	0926	soil	1 / 2x6	-	X	
4	01-FS-12@0	12/30/19	0953	soil	1 / 2x6	-	X	4-pt composite for OCPs
5								
6	01-FS-07@3	12/30/19	0958	soil	1 / 2x6	-	X	
7	01-FS-10@3	12/30/19	0836	soil	1 / 2x6	-	X	
8	01-FS-11@3	12/30/19	0924	soil	1 / 2x6	-	X	
9	01-FS-12@3	12/30/19	0951	soil	1 / 2x6	-	X	
10								

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Emma L Griffie	Emma Griffie	ENGEO / Staff Geologist	12/30/2019 @ 1204
[1] Received By:				12/30/19 1205
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL		Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No:	Standard: ✓ 4 Day: 3 Day:
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 4 of 5	2 Day: 1 Day: Same Day:
Billing: Enthalpy Analytical 1 Park Plaza, Suite 1000 Irvine, CA 92614		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	ENGEO	Name:	Former La Puerta School
Report To:	Adrianna Lundberg	Number:	Northern Area, Former Strucutres
Email:	alundberg@engeo.com	P.O. #:	16664.000.000
Address:	6 Morgan Suite 162	Address:	2475 Forbes Ave
	Irvine, CA		Claremont, CA
Phone:	949.579.2268	Global ID:	
Fax:		Sampled By:	Emma Griffie

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Method 8081 - OCPs	Test Instructions / Comments
1	01-FS-13@0	12/30/19	0934	soil	1 / 2x6	-	X	silica gel cleanup
2	01-FS-14@0	12/30/19	0831	soil	1 / 2x6	-	X	
3	01-FS-15@0	12/30/19	0812	soil	1 / 2x6	-	X	
4	01-FS-16@0	12/30/19	0824	soil	1 / 2x6	-	X	4-pt composite for OCPs
5								
6	01-FS-13@3	12/30/19	0931	soil	1 / 2x6	-	X	
7	01-FS-14@3	12/30/19	0830	soil	1 / 2x6	-	X	
8	01-FS-15@3	12/30/19	0811	soil	1 / 2x6	-	X	
9	01-FS-16@3	12/30/19	0822	soil	1 / 2x6	-	X	
10								

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Emma L Griffie	Emma Griffie	ENGEO / Staff Geologist	12/30/2019 @ 1204.
[1] Received By:				12/30/19 1205
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL		Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No:	Standard: ✓ 4 Day: 3 Day:
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 5 of 5	2 Day: 1 Day: Same Day:
Billing: Enthalpy Analytical		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other
1 Park Plaza, Suite 1000			
Irvine, CA 92614			

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	ENGEO	Name:	Former La Puerta School
Report To:	Adrianna Lundberg	Number:	Northeast Area, Former AST
Email:	alundberg@engeo.com	P.O. #:	
Address:	6 Morgan Suite 162	Address:	2475 Forbes Ave
	Irvine, CA		Claremont, CA
Phone:	949.579.2268	Global ID:	
Fax:		Sampled By:	Emma Griffie

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request: 8015 M - TPH gasoline, diesel, motor oil	8260 - VOCs			6010 - aresnic						Test Instructions / Comments
1	01-FAST-01@1	12/30/19	0715	soil	1 / 2x6	-	✓	✓			✓						silica gel cleanup
2	01-FAST-01@2.5	12/30/19	0720	soil	1 / 2x6	-	✓	✓			✓						
3	01-FAST-01@5	12/30/19	0725	soil	1 / 2x6	-	✓	✓			✓						
4	01-FAST-01@10	12/30/19	0735	soil	1 / 2x6	-	✓	✓			✓						
5																	
6	01-FAST-02@1	12/30/19	0745	soil	1 / 2x6	-	✓	✓			✓						
7	01-FAST-02@2.5	12/30/19	0747	soil	1 / 2x6	-	✓	✓			✓						
8	01-FAST-02@5	12/30/19	0753	soil	1 / 2x6	-	✓	✓			✓						
9	01-FAST-02@10	12/30/19	0757	soil	1 / 2x6	-	✓	✓			✓						
10																	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	Emma Z. Griffie	Emma Griffie	ENGEO / Staff Geologist	12/30/2019 C1204
1 Received By:		Christine C.	EA	12/30/19 1205
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

13.4/12.8

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Engeo

Project: Former La Puerta School

Date Received: 12/30/19

Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? _____ ☐ No (skip section 2)

Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 13.4 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 12.8 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 12/30/19

APPENDIX B

Laboratory Analytical Report
Existing Stockpile – Southwest Area

Enthalpy Analytical, LLC

16664.000.000
February 4, 2020

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: ENGEO Inc.
Address: 6 Morgan, Suite 162
Irvine, CA 92618-1922

Attn: Adrianna Lundberg

Comments: Former La Puerta School
16664.000.000

Lab Request: 423106
Report Date: 01/07/2020
Date Received: 12/23/2019
Client ID: 15790

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
423106-001	01-SP-A3
423106-002	01-SP-A4
423106-003	01-SP-A5
423106-004	01-SP-B3
423106-005	4-pt comp 01-SP-A3, A4, A5, B3
423106-006	01-SP-B1
423106-007	01-SP-B2
423106-008	01-SP-C1
423106-009	01-SP-C2
423106-010	4-pt comp 01-SP-B1, B2, C1, C2
423106-011	01-SP-B4
423106-012	01-SP-B5
423106-013	01-SP-C4
423106-014	01-SP-C5
423106-015	4-pt comp 01-SP-B4, B5, C4, C5
423106-016	01-SP-C3
423106-017	01-SP-D2
423106-018	01-SP-D3
423106-019	01-SP-D4
423106-020	4-pt comp 01-SP-C3, D2, D3, D4

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Diane M. Galvan

Report Review performed by: Diane Galvan, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date received.

ACCREDITED IN ACCORDANCE WITH nelac

Detections Summary

Sample #: 423106-001 **Client Sample #:** 01-SP-A3

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8015M	TPH (C13 to C28) (SGT)	36.0	1	10	mg/Kg	
EPA 8015M	TPH (C29 to C 40) (SGT)	38.4	1	20	mg/Kg	

Sample #: 423106-002 **Client Sample #:** 01-SP-A4

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8270CM	Dibenz(a,h)anthracene	10	1	10	ug/Kg	

Sample #: 423106-003 **Client Sample #:** 01-SP-A5

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8270CM	Dibenz(a,h)anthracene	10	1	10	ug/Kg	

Sample #: 423106-004 **Client Sample #:** 01-SP-B3

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8270CM	Dibenz(a,h)anthracene	10	1	10	ug/Kg	

Sample #: 423106-005 **Client Sample #:** 4-pt comp 01-SP-A3, A4, A5, B3

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Arsenic	4.13	1	1	mg/Kg	
EPA 6010B	Barium	54.1	1	1	mg/Kg	
EPA 6010B	Chromium	14.4	1	1	mg/Kg	
EPA 6010B	Cobalt	7.39	1	0.5	mg/Kg	
EPA 6010B	Copper	12.8	1	1	mg/Kg	
EPA 6010B	Lead	13.2	1	1	mg/Kg	
EPA 6010B	Molybdenum	1.11	1	1	mg/Kg	
EPA 6010B	Nickel	9.47	1	1.5	mg/Kg	
EPA 6010B	Vanadium	23.5	1	0.5	mg/Kg	
EPA 6010B	Zinc	50.4	1	5	mg/Kg	

Sample #: 423106-006 **Client Sample #:** 01-SP-B1

No analyte detected

Sample #: 423106-007 **Client Sample #:** 01-SP-B2

No analyte detected

Sample #: 423106-008 **Client Sample #:** 01-SP-C1

No analyte detected

Sample #: 423106-009 **Client Sample #:** 01-SP-C2

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8015M	TPH (C13 to C28) (SGT)	17.8	1	10	mg/Kg	
EPA 8015M	TPH (C29 to C 40) (SGT)	29.2	1	20	mg/Kg	
EPA 8270CM	Dibenz(a,h)anthracene	51	5	50	ug/Kg	D2

Sample #: 423106-010 **Client Sample #:** 4-pt comp 01-SP-B1, B2, C1, C2

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Arsenic	2.65	1	1	mg/Kg	
EPA 6010B	Barium	65.6	1	1	mg/Kg	
EPA 6010B	Cadmium	0.69	1	0.5	mg/Kg	
EPA 6010B	Chromium	13.1	1	1	mg/Kg	
EPA 6010B	Cobalt	7.42	1	0.5	mg/Kg	

Detections Summary

Sample #: 423106-010 **Client Sample #:** 4-pt comp 01-SP-B1, B2, C1, C2

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Copper	13.6	1	1	mg/Kg	
EPA 6010B	Lead	5.79	1	1	mg/Kg	
EPA 6010B	Nickel	11.5	1	1.5	mg/Kg	
EPA 6010B	Vanadium	25.1	1	0.5	mg/Kg	
EPA 6010B	Zinc	45.2	1	5	mg/Kg	

Sample #: 423106-011 **Client Sample #:** 01-SP-B4

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8270CM	Dibenz(a,h)anthracene	10	1	10	ug/Kg	

Sample #: 423106-012 **Client Sample #:** 01-SP-B5

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8270CM	Anthracene	59	5	50	ug/Kg	
EPA 8270CM	Benz(a)anthracene	370	5	50	ug/Kg	
EPA 8270CM	Benzo(a)pyrene	290	5	50	ug/Kg	
EPA 8270CM	Benzo(b)fluoranthene	290	5	50	ug/Kg	
EPA 8270CM	Benzo(g,h,i)perylene	85	5	50	ug/Kg	
EPA 8270CM	Benzo(k)fluoranthene	250	5	50	ug/Kg	
EPA 8270CM	Chrysene	320	5	50	ug/Kg	
EPA 8270CM	Dibenz(a,h)anthracene	69	5	50	ug/Kg	
EPA 8270CM	Fluoranthene	710	5	50	ug/Kg	
EPA 8270CM	Indeno(1,2,3-cd)pyrene	120	5	50	ug/Kg	
EPA 8270CM	Phenanthrene	250	5	50	ug/Kg	
EPA 8270CM	Pyrene	570	5	50	ug/Kg	

Sample #: 423106-013 **Client Sample #:** 01-SP-C4

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8270CM	Dibenz(a,h)anthracene	10	1	10	ug/Kg	

Sample #: 423106-014 **Client Sample #:** 01-SP-C5

No analyte detected

Sample #: 423106-015 **Client Sample #:** 4-pt comp 01-SP-B4, B5, C4, C5

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Barium	35.8	1	1	mg/Kg	
EPA 6010B	Cadmium	0.68	1	0.5	mg/Kg	
EPA 6010B	Chromium	7.60	1	1	mg/Kg	
EPA 6010B	Cobalt	5.95	1	0.5	mg/Kg	
EPA 6010B	Copper	7.94	1	1	mg/Kg	
EPA 6010B	Lead	4.92	1	1	mg/Kg	
EPA 6010B	Nickel	6.09	1	1.5	mg/Kg	
EPA 6010B	Vanadium	15.2	1	0.5	mg/Kg	
EPA 6010B	Zinc	37.9	1	5	mg/Kg	

Sample #: 423106-016 **Client Sample #:** 01-SP-C3

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8270CM	Acenaphthene	22	1	10	ug/Kg	
EPA 8270CM	Anthracene	40	1	10	ug/Kg	
EPA 8270CM	Benz(a)anthracene	110	1	10	ug/Kg	
EPA 8270CM	Benzo(a)pyrene	89	1	10	ug/Kg	
EPA 8270CM	Benzo(b)fluoranthene	62	1	10	ug/Kg	
EPA 8270CM	Benzo(g,h,i)perylene	37	1	10	ug/Kg	

Detections Summary

Sample #: 423106-016 **Client Sample #:** 01-SP-C3

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8270CM	Benzo(k)fluoranthene	74	1	10	ug/Kg	
EPA 8270CM	Chrysene	110	1	10	ug/Kg	
EPA 8270CM	Dibenz(a,h)anthracene	17	1	10	ug/Kg	
EPA 8270CM	Fluoranthene	250	1	10	ug/Kg	
EPA 8270CM	Fluorene	14	1	10	ug/Kg	
EPA 8270CM	Indeno(1,2,3-cd)pyrene	50	1	10	ug/Kg	
EPA 8270CM	Phenanthrene	180	1	10	ug/Kg	
EPA 8270CM	Pyrene	240	1	10	ug/Kg	

Sample #: 423106-017 **Client Sample #:** 01-SP-D2

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8270CM	Anthracene	17	1	10	ug/Kg	
EPA 8270CM	Benz(a)anthracene	64	1	10	ug/Kg	
EPA 8270CM	Benzo(a)pyrene	55	1	10	ug/Kg	
EPA 8270CM	Benzo(b)fluoranthene	37	1	10	ug/Kg	
EPA 8270CM	Benzo(g,h,i)perylene	22	1	10	ug/Kg	
EPA 8270CM	Benzo(k)fluoranthene	45	1	10	ug/Kg	
EPA 8270CM	Chrysene	64	1	10	ug/Kg	
EPA 8270CM	Dibenz(a,h)anthracene	14	1	10	ug/Kg	
EPA 8270CM	Fluoranthene	120	1	10	ug/Kg	
EPA 8270CM	Indeno(1,2,3-cd)pyrene	29	1	10	ug/Kg	
EPA 8270CM	Phenanthrene	55	1	10	ug/Kg	
EPA 8270CM	Pyrene	120	1	10	ug/Kg	

Sample #: 423106-018 **Client Sample #:** 01-SP-D3

No analyte detected

Sample #: 423106-019 **Client Sample #:** 01-SP-D4

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8270CM	Dibenz(a,h)anthracene	50	5	50	ug/Kg	D2

Sample #: 423106-020 **Client Sample #:** 4-pt comp 01-SP-C3, D2, D3, D4

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Barium	49.2	1	1	mg/Kg	
EPA 6010B	Cadmium	0.63	1	0.5	mg/Kg	
EPA 6010B	Chromium	23.4	1	1	mg/Kg	
EPA 6010B	Cobalt	8.14	1	0.5	mg/Kg	
EPA 6010B	Copper	47.7	1	1	mg/Kg	
EPA 6010B	Lead	9.64	1	1	mg/Kg	
EPA 6010B	Nickel	12.0	1	1.5	mg/Kg	
EPA 6010B	Vanadium	28.4	1	0.5	mg/Kg	
EPA 6010B	Zinc	51.4	1	5	mg/Kg	
EPA 8081A	4,4'-DDE	9.1	1	5	ug/Kg	

Matrix: Solid	**Client:** ENGEO Inc.		**Collector:** Client		
Sampled: 12/23/2019 09:00	**Site:**				
Sample #: **423106-001**	**Client Sample #:** 01-SP-A3		**Sample Type:**		

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/27/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*90*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	**36.0**	1	10	mg/Kg		12/31/19	TW	
TPH (C29 to C 40) (SGT)	**38.4**	1	20	mg/Kg		12/31/19	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*91*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1212895		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/24/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/24/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/24/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 09:00	**Site:**			
Sample #:	**423106-001**	**Client Sample #:**	01-SP-A3	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/24/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/24/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/24/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*122*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*98*	*70-145*	
Dibromofluoromethane (SUR)	*109*	*70-145*	
Toluene-d8 (SUR)	*87*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

1-Methylnaphthalene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
2-Methylnaphthalene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Acenaphthene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Acenaphthylene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Anthracene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Benz(a)anthracene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Benzo(a)pyrene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Benzo(b)fluoranthene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Benzo(g,h,i)perylene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Benzo(k)fluoranthene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Chrysene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	J,D2
Dibenz(a,h)anthracene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Fluoranthene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Fluorene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Indeno(1,2,3-cd)pyrene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Naphthalene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Phenanthrene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	D2
Pyrene	ND	5	50	ug/Kg	01/02/20	01/02/20	CBR	J,D2

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*80*	*30-120*	
Nitrobenzene-d5 (SUR)	*98*	*27-125*	
p-Terphenyl (SUR)	*109*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 09:10	**Site:**			
Sample #:	**423106-002**	**Client Sample #:**	01-SP-A4	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B NELAC Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		12/31/19	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		12/31/19	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*95*		*50-150*					
Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1213012		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/28/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/28/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/28/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 09:10	**Site:**			
Sample #:	**423106-002**	**Client Sample #:**	01-SP-A4	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/28/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/28/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/28/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*96*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*99*	*70-145*	
Dibromofluoromethane (SUR)	*102*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

1-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Acenaphthene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Acenaphthylene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Anthracene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Benz(a)anthracene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Benzo(a)pyrene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Benzo(b)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Benzo(g,h,i)perylene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Benzo(k)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Chrysene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Dibenz(a,h)anthracene	**10**	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Fluoranthene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Fluorene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Indeno(1,2,3-cd)pyrene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Naphthalene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Phenanthrene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Pyrene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*101*	*30-120*	
Nitrobenzene-d5 (SUR)	*126*	*27-125*	*S*
p-Terphenyl (SUR)	*104*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 09:15	**Site:**			
Sample #:	**423106-003**	**Client Sample #:**	01-SP-A5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		12/31/19	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		12/31/19	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*110*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1212895		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/24/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/24/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/24/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 09:15	**Site:**			
Sample #:	**423106-003**	**Client Sample #:**	01-SP-A5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/24/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/24/19	ZZ	J
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/24/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/24/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*125*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*97*	*70-145*	
Dibromofluoromethane (SUR)	*110*	*70-145*	
Toluene-d8 (SUR)	*84*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Acenaphthene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Acenaphthylene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Anthracene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Benz(a)anthracene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Benzo(a)pyrene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Benzo(b)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Benzo(g,h,i)perylene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Benzo(k)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Chrysene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Dibenz(a,h)anthracene	**10**	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Fluoranthene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Fluorene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Indeno(1,2,3-cd)pyrene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Naphthalene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Phenanthrene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Pyrene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*95*	*30-120*	
Nitrobenzene-d5 (SUR)	*118*	*27-125*	
p-Terphenyl (SUR)	*94*	*33-155*	

Matrix: Solid	**Client:** ENGEO Inc.		**Collector:** Client		
Sampled: 12/23/2019 09:25	**Site:**				
Sample #: **423106-004**	**Client Sample #:** 01-SP-B3		**Sample Type:**		

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		12/31/19	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		12/31/19	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*113*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213012		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/28/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/28/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/28/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 09:25	**Site:**			
Sample #:	**423106-004**	**Client Sample #:**	01-SP-B3	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/28/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/28/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/28/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*97*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*97*	*70-145*	
Dibromofluoromethane (SUR)	*102*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

1-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Acenaphthene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Acenaphthylene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Anthracene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Benz(a)anthracene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Benzo(a)pyrene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Benzo(b)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Benzo(g,h,i)perylene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Benzo(k)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Chrysene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Dibenz(a,h)anthracene	**10**	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Fluoranthene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Fluorene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Indeno(1,2,3-cd)pyrene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Naphthalene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	
Phenanthrene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J
Pyrene	ND	1	10	ug/Kg	01/02/20	01/02/20	CBR	J

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*98*	*30-120*	
Nitrobenzene-d5 (SUR)	*122*	*27-125*	
p-Terphenyl (SUR)	*93*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019	**Site:**			
Sample #:	**423106-005**	**Client Sample #:**	4-pt comp 01-SP-A3, A4, A5, B3	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1212910		
Antimony	ND	1	3	mg/Kg		12/30/19	SBW	B
Arsenic	**4.13**	1	1	mg/Kg		12/27/19	SBW	
Barium	**54.1**	1	1	mg/Kg		12/27/19	SBW	
Beryllium	ND	1	0.5	mg/Kg		12/27/19	SBW	
Cadmium	ND	1	0.5	mg/Kg		12/27/19	SBW	J
Chromium	**14.4**	1	1	mg/Kg		12/27/19	SBW	
Cobalt	**7.39**	1	0.5	mg/Kg		12/27/19	SBW	
Copper	**12.8**	1	1	mg/Kg		12/30/19	SBW	
Lead	**13.2**	1	1	mg/Kg		12/27/19	SBW	
Molybdenum	**1.11**	1	1	mg/Kg		12/27/19	SBW	
Nickel	**9.47**	1	1.5	mg/Kg		12/27/19	SBW	
Selenium	ND	1	3	mg/Kg		12/27/19	SBW	
Silver	ND	1	0.5	mg/Kg		12/27/19	SBW	
Thallium	ND	1	3	mg/Kg		12/27/19	SBW	J
Vanadium	**23.5**	1	0.5	mg/Kg		12/27/19	SBW	
Zinc	**50.4**	1	5	mg/Kg		12/27/19	SBW	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A						QCBatchID: QC1213022		
Mercury	ND	1	0.14	mg/Kg	12/29/19	12/30/19	SBW	
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213156		
4,4'-DDD	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
4,4'-DDE	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	J
4,4'-DDT	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
a-BHC	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Aldrin	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
b-BHC	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Chlordane (technical)	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
d-BHC	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Dieldrin	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endosulfan I	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endosulfan II	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endosulfan sulfate	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endrin	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endrin aldehyde	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endrin Ketone	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Heptachlor	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Heptachlor epoxide	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Methoxychlor	ND	1	10	ug/Kg	01/02/20	01/03/20	MTS	
Toxaphene	ND	1	100	ug/Kg	01/02/20	01/03/20	MTS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*67*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*66*	*50-150*	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8082 *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213157		
PCB-1016	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1221	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1232	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1242	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1248	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1254	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1260	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1262	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1268	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019	**Site:**			
Sample #:	**423106-005**	**Client Sample #:**	4-pt comp 01-SP-A3, A4, A5, B3	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*89*		*50-150*					

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 09:35	**Site:**			
Sample #:	**423106-006**	**Client Sample #:**	01-SP-B1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		12/31/19	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		12/31/19	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*111*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213012		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/28/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/28/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/28/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	

Matrix: Solid **Client:** ENGEO Inc. **Collector:** Client
Sampled: 12/23/2019 09:35 **Site:**
Sample #: **423106-006** **Client Sample #:** 01-SP-B1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/28/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/28/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/28/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*102*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*99*	*70-145*	
Dibromofluoromethane (SUR)	*104*	*70-145*	
Toluene-d8 (SUR)	*96*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

1-Methylnaphthalene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
2-Methylnaphthalene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Acenaphthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Acenaphthylene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Anthracene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Benz(a)anthracene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Benzo(a)pyrene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Benzo(b)fluoranthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Benzo(g,h,i)perylene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Benzo(k)fluoranthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Chrysene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2
Dibenz(a,h)anthracene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Fluoranthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2
Fluorene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Indeno(1,2,3-cd)pyrene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Naphthalene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Phenanthrene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2
Pyrene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*441*	*30-120*	*S*
Nitrobenzene-d5 (SUR)	*619*	*27-125*	*S*
p-Terphenyl (SUR)	*492*	*33-155*	*S*

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 09:40	**Site:**			
Sample #:	**423106-007**	**Client Sample #:**	01-SP-B2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		12/31/19	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		12/31/19	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*108*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1212895		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/24/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/24/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/24/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 09:40	**Site:**			
Sample #:	**423106-007**	**Client Sample #:**	01-SP-B2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/24/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/24/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/24/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*121*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*98*	*70-145*	
Dibromofluoromethane (SUR)	*107*	*70-145*	
Toluene-d8 (SUR)	*88*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

1-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benz(a)anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(a)pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(b)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(g,h,i)perylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(k)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Chrysene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Dibenz(a,h)anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Fluorene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Indeno(1,2,3-cd)pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Naphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Phenanthrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*82*	*30-120*	
Nitrobenzene-d5 (SUR)	*118*	*27-125*	
p-Terphenyl (SUR)	*89*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 09:50	**Site:**			
Sample #:	**423106-008**	**Client Sample #:**	01-SP-C1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B NELAC Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		12/31/19	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		12/31/19	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*108*		*50-150*					
Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1213012		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/28/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/28/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/28/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 09:50	**Site:**			
Sample #:	**423106-008**	**Client Sample #:**	01-SP-C1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/28/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/28/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/28/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*98*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*98*	*70-145*	
Dibromofluoromethane (SUR)	*103*	*70-145*	
Toluene-d8 (SUR)	*97*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

1-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benz(a)anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(a)pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(b)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(g,h,i)perylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	S3
Benzo(k)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Chrysene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Dibenz(a,h)anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	S3
Fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Fluorene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Indeno(1,2,3-cd)pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	S3
Naphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Phenanthrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*83*	*30-120*	
Nitrobenzene-d5 (SUR)	*111*	*27-125*	
p-Terphenyl (SUR)	*89*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:00	**Site:**			
Sample #:	**423106-009**	**Client Sample #:**	01-SP-C2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*100*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	**17.8**	1	10	mg/Kg		12/31/19	TW	
TPH (C29 to C 40) (SGT)	**29.2**	1	20	mg/Kg		12/31/19	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*105*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1212895		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/24/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/24/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/24/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:00	**Site:**			
Sample #:	**423106-009**	**Client Sample #:**	01-SP-C2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/24/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/24/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/24/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*123*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*98*	*70-145*	
Dibromofluoromethane (SUR)	*112*	*70-145*	
Toluene-d8 (SUR)	*86*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

1-Methylnaphthalene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
2-Methylnaphthalene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Acenaphthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Acenaphthylene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Anthracene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Benz(a)anthracene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2
Benzo(a)pyrene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Benzo(b)fluoranthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Benzo(g,h,i)perylene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2
Benzo(k)fluoranthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Chrysene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2
Dibenz(a,h)anthracene	**51**	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Fluoranthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2
Fluorene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Indeno(1,2,3-cd)pyrene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Naphthalene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Phenanthrene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Pyrene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*95*	*30-120*	
Nitrobenzene-d5 (SUR)	*132*	*27-125*	*S*
p-Terphenyl (SUR)	*127*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019	**Site:**			
Sample #:	**423106-010**	**Client Sample #:**	4-pt comp 01-SP-B1, B2, C1, C2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1212910		
Antimony	ND	1	3	mg/Kg		12/30/19	SBW	B,J
Arsenic	**2.65**	1	1	mg/Kg		12/27/19	SBW	
Barium	**65.6**	1	1	mg/Kg		12/27/19	SBW	
Beryllium	ND	1	0.5	mg/Kg		12/27/19	SBW	
Cadmium	**0.69**	1	0.5	mg/Kg		12/27/19	SBW	
Chromium	**13.1**	1	1	mg/Kg		12/27/19	SBW	
Cobalt	**7.42**	1	0.5	mg/Kg		12/27/19	SBW	
Copper	**13.6**	1	1	mg/Kg		12/30/19	SBW	
Lead	**5.79**	1	1	mg/Kg		12/30/19	SBW	
Molybdenum	ND	1	1	mg/Kg		12/27/19	SBW	J
Nickel	**11.5**	1	1.5	mg/Kg		12/30/19	SBW	
Selenium	ND	1	3	mg/Kg		12/27/19	SBW	
Silver	ND	1	0.5	mg/Kg		12/27/19	SBW	
Thallium	ND	1	3	mg/Kg		12/27/19	SBW	J
Vanadium	**25.1**	1	0.5	mg/Kg		12/27/19	SBW	
Zinc	**45.2**	1	5	mg/Kg		12/27/19	SBW	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A						QCBatchID: QC1213022		
Mercury	ND	1	0.14	mg/Kg	12/29/19	12/30/19	SBW	
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213156		
4,4'-DDD	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
4,4'-DDE	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	J
4,4'-DDT	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	J
a-BHC	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Aldrin	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
b-BHC	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Chlordane (technical)	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
d-BHC	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Dieldrin	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endosulfan I	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endosulfan II	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endosulfan sulfate	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endrin	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endrin aldehyde	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endrin Ketone	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Heptachlor	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Heptachlor epoxide	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Methoxychlor	ND	1	10	ug/Kg	01/02/20	01/03/20	MTS	
Toxaphene	ND	1	100	ug/Kg	01/02/20	01/03/20	MTS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*62*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*73*	*50-150*	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8082 *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213157		
PCB-1016	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1221	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1232	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1242	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1248	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1254	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1260	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1262	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1268	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019	**Site:**			
Sample #:	**423106-010**	**Client Sample #:**	4-pt comp 01-SP-B1, B2, C1, C2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*87*		*50-150*					

Matrix: Solid	**Client:** ENGEO Inc.		**Collector:** Client		
Sampled: 12/23/2019 10:15	**Site:**				
Sample #: **423106-011**	**Client Sample #:** 01-SP-B4		**Sample Type:**		

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*80*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		12/31/19	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		12/31/19	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*110*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1212895		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/24/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/24/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/24/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:15	**Site:**			
Sample #:	**423106-011**	**Client Sample #:**	01-SP-B4	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/24/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/24/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/24/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*121*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*101*	*70-145*	
Dibromofluoromethane (SUR)	*110*	*70-145*	
Toluene-d8 (SUR)	*87*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

1-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benz(a)anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(a)pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(b)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(g,h,i)perylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(k)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Chrysene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Dibenz(a,h)anthracene	**10**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Fluorene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Indeno(1,2,3-cd)pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Naphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Phenanthrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*85*	*30-120*	
Nitrobenzene-d5 (SUR)	*116*	*27-125*	
p-Terphenyl (SUR)	*91*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:20	**Site:**			
Sample #:	**423106-012**	**Client Sample #:**	01-SP-B5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		12/31/19	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		12/31/19	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*103*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1212895		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/24/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/24/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/24/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:20	**Site:**			
Sample #:	**423106-012**	**Client Sample #:**	01-SP-B5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/24/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/24/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/24/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*119*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*101*	*70-145*	
Dibromofluoromethane (SUR)	*106*	*70-145*	
Toluene-d8 (SUR)	*87*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1-Methylnaphthalene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	
2-Methylnaphthalene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J
Acenaphthylene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Anthracene	**59**	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Benz(a)anthracene	**370**	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(a)pyrene	**290**	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(b)fluoranthene	**290**	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(g,h,i)perylene	**85**	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(k)fluoranthene	**250**	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Chrysene	**320**	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Dibenz(a,h)anthracene	**69**	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Fluoranthene	**710**	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Fluorene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J
Indeno(1,2,3-cd)pyrene	**120**	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Naphthalene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Phenanthrene	**250**	5	50	ug/Kg	01/02/20	01/06/20	CBR	
Pyrene	**570**	5	50	ug/Kg	01/02/20	01/06/20	CBR	

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*96*	*30-120*	
Nitrobenzene-d5 (SUR)	*127*	*27-125*	*S*
p-Terphenyl (SUR)	*131*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:30	**Site:**			
Sample #:	**423106-013**	**Client Sample #:**	01-SP-C4	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*100*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		12/31/19	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		12/31/19	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*106*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1212895		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/24/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/24/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/24/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:30	**Site:**			
Sample #:	**423106-013**	**Client Sample #:**	01-SP-C4	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/24/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/24/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/24/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*124*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*100*	*70-145*	
Dibromofluoromethane (SUR)	*109*	*70-145*	
Toluene-d8 (SUR)	*87*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benz(a)anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(a)pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(b)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(g,h,i)perylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(k)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Chrysene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Dibenz(a,h)anthracene	**10**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Fluorene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Indeno(1,2,3-cd)pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Naphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Phenanthrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*105*	*30-120*	
Nitrobenzene-d5 (SUR)	*133*	*27-125*	*S*
p-Terphenyl (SUR)	*99*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:35	**Site:**			
Sample #:	**423106-014**	**Client Sample #:**	01-SP-C5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		01/01/20	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		01/01/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*106*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1212895		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/24/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/24/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/24/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:35	**Site:**			
Sample #:	**423106-014**	**Client Sample #:**	01-SP-C5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/24/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/24/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/24/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*124*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*101*	*70-145*	
Dibromofluoromethane (SUR)	*112*	*70-145*	
Toluene-d8 (SUR)	*85*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

1-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benz(a)anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(a)pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(b)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(g,h,i)perylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(k)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Chrysene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Dibenz(a,h)anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Fluorene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Indeno(1,2,3-cd)pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Naphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Phenanthrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*48*	*30-120*	
Nitrobenzene-d5 (SUR)	*64*	*27-125*	
p-Terphenyl (SUR)	*56*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019	**Site:**			
Sample #:	**423106-015**	**Client Sample #:**	4-pt comp 01-SP-B4, B5, C4, C5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1212910		
Antimony	ND	1	3	mg/Kg		12/30/19	SBW	B
Arsenic	ND	1	1	mg/Kg		12/27/19	SBW	
Barium	**35.8**	1	1	mg/Kg		12/27/19	SBW	
Beryllium	ND	1	0.5	mg/Kg		12/27/19	SBW	
Cadmium	**0.68**	1	0.5	mg/Kg		12/27/19	SBW	
Chromium	**7.60**	1	1	mg/Kg		12/27/19	SBW	
Cobalt	**5.95**	1	0.5	mg/Kg		12/27/19	SBW	
Copper	**7.94**	1	1	mg/Kg		12/30/19	SBW	
Lead	**4.92**	1	1	mg/Kg		12/30/19	SBW	
Molybdenum	ND	1	1	mg/Kg		12/27/19	SBW	
Nickel	**6.09**	1	1.5	mg/Kg		12/30/19	SBW	
Selenium	ND	1	3	mg/Kg		12/27/19	SBW	J
Silver	ND	1	0.5	mg/Kg		12/27/19	SBW	
Thallium	ND	1	3	mg/Kg		12/27/19	SBW	
Vanadium	**15.2**	1	0.5	mg/Kg		12/27/19	SBW	
Zinc	**37.9**	1	5	mg/Kg		12/27/19	SBW	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A						QCBatchID: QC1213022		
Mercury	ND	1	0.14	mg/Kg	12/29/19	12/30/19	SBW	
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213156		
4,4'-DDD	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
4,4'-DDE	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	J,D2
4,4'-DDT	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
a-BHC	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Aldrin	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
b-BHC	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Chlordane (technical)	ND	2	100	ug/Kg	01/02/20	01/03/20	MTS	D2
d-BHC	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Dieldrin	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Endosulfan I	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Endosulfan II	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Endosulfan sulfate	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Endrin	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Endrin aldehyde	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Endrin Ketone	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Heptachlor	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Heptachlor epoxide	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Lindane (Gamma-BHC)	ND	2	10	ug/Kg	01/02/20	01/03/20	MTS	D2
Methoxychlor	ND	2	20	ug/Kg	01/02/20	01/03/20	MTS	D2
Toxaphene	ND	2	200	ug/Kg	01/02/20	01/03/20	MTS	D2

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*55*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*67*	*50-150*	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8082 *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213157		
PCB-1016	ND	2	100	ug/Kg	01/02/20	01/03/20	MTS	D2
PCB-1221	ND	2	100	ug/Kg	01/02/20	01/03/20	MTS	D2
PCB-1232	ND	2	100	ug/Kg	01/02/20	01/03/20	MTS	D2
PCB-1242	ND	2	100	ug/Kg	01/02/20	01/03/20	MTS	D2
PCB-1248	ND	2	100	ug/Kg	01/02/20	01/03/20	MTS	D2
PCB-1254	ND	2	100	ug/Kg	01/02/20	01/03/20	MTS	D2
PCB-1260	ND	2	100	ug/Kg	01/02/20	01/03/20	MTS	D2
PCB-1262	ND	2	100	ug/Kg	01/02/20	01/03/20	MTS	D2
PCB-1268	ND	2	100	ug/Kg	01/02/20	01/03/20	MTS	D2

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019	**Site:**			
Sample #:	**423106-015**	**Client Sample #:**	4-pt comp 01-SP-B4, B5, C4, C5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*82*		*50-150*					

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:45	**Site:**			
Sample #:	**423106-016**	**Client Sample #:**	01-SP-C3	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		01/01/20	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		01/01/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*106*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213012		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/28/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/28/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/28/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:45	**Site:**			
Sample #:	**423106-016**	**Client Sample #:**	01-SP-C3	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/28/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/28/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/28/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*96*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*96*	*70-145*	
Dibromofluoromethane (SUR)	*101*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthene	**22**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Anthracene	**40**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benz(a)anthracene	**110**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(a)pyrene	**89**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(b)fluoranthene	**62**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(g,h,i)perylene	**37**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(k)fluoranthene	**74**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Chrysene	**110**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Dibenz(a,h)anthracene	**17**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Fluoranthene	**250**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Fluorene	**14**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Indeno(1,2,3-cd)pyrene	**50**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Naphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Phenanthrene	**180**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Pyrene	**240**	1	10	ug/Kg	01/02/20	01/06/20	CBR	

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*85*	*30-120*	
Nitrobenzene-d5 (SUR)	*110*	*27-125*	
p-Terphenyl (SUR)	*96*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:50	**Site:**			
Sample #:	**423106-017**	**Client Sample #:**	01-SP-D2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		01/01/20	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		01/01/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*110*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1212895		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/24/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/24/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/24/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/24/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/24/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/24/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/24/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:50	**Site:**			
Sample #:	**423106-017**	**Client Sample #:**	01-SP-D2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/24/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/24/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/24/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/24/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/24/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/24/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/24/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/24/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/24/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*121*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*99*	*70-145*	
Dibromofluoromethane (SUR)	*107*	*70-145*	
Toluene-d8 (SUR)	*89*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Acenaphthylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Anthracene	**17**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benz(a)anthracene	**64**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(a)pyrene	**55**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(b)fluoranthene	**37**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(g,h,i)perylene	**22**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benzo(k)fluoranthene	**45**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Chrysene	**64**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Dibenz(a,h)anthracene	**14**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Fluoranthene	**120**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Fluorene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Indeno(1,2,3-cd)pyrene	**29**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Naphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Phenanthrene	**55**	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Pyrene	**120**	1	10	ug/Kg	01/02/20	01/06/20	CBR	

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*76*	*30-120*	
Nitrobenzene-d5 (SUR)	*101*	*27-125*	
p-Terphenyl (SUR)	*81*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:55	**Site:**			
Sample #:	**423106-018**	**Client Sample #:**	01-SP-D3	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		01/01/20	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		01/01/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*108*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213012		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/28/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/28/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/28/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 10:55	**Site:**			
Sample #:	**423106-018**	**Client Sample #:**	01-SP-D3	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/28/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/28/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/28/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*99*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*98*	*70-145*	
Dibromofluoromethane (SUR)	*102*	*70-145*	
Toluene-d8 (SUR)	*96*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

1-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Acenaphthylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Benz(a)anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(a)pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(b)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(g,h,i)perylene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Benzo(k)fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Chrysene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Dibenz(a,h)anthracene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Fluoranthene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Fluorene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Indeno(1,2,3-cd)pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Naphthalene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	
Phenanthrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J
Pyrene	ND	1	10	ug/Kg	01/02/20	01/06/20	CBR	J

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*93*	*30-120*	
Nitrobenzene-d5 (SUR)	*127*	*27-125*	*S*
p-Terphenyl (SUR)	*101*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 11:05	**Site:**			
Sample #:	**423106-019**	**Client Sample #:**	01-SP-D4	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1209388		
TPH (C6 to C12)	ND	1	3	mg/Kg		12/28/19	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1212963		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		01/01/20	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		01/01/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*108*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213012		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/28/19	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/28/19	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/28/19	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/28/19	ZZ	
Acetone	ND	1	100	ug/Kg		12/28/19	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Benzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromoform	ND	1	5	ug/Kg		12/28/19	ZZ	
Bromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloroform	ND	1	5	ug/Kg		12/28/19	ZZ	
Chloromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019 11:05	**Site:**			
Sample #:	**423106-019**	**Client Sample #:**	01-SP-D4	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/28/19	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/28/19	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/28/19	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Styrene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/28/19	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Toluene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/28/19	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/28/19	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/28/19	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/28/19	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/28/19	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*96*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*99*	*70-145*	
Dibromofluoromethane (SUR)	*103*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213147

1-Methylnaphthalene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
2-Methylnaphthalene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Acenaphthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Acenaphthylene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Anthracene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Benz(a)anthracene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2
Benzo(a)pyrene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Benzo(b)fluoranthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Benzo(g,h,i)perylene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2
Benzo(k)fluoranthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Chrysene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2
Dibenz(a,h)anthracene	**50**	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Fluoranthene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2
Fluorene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Indeno(1,2,3-cd)pyrene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Naphthalene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Phenanthrene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	D2
Pyrene	ND	5	50	ug/Kg	01/02/20	01/06/20	CBR	J,D2

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*75*	*30-120*	
Nitrobenzene-d5 (SUR)	*98*	*27-125*	
p-Terphenyl (SUR)	*110*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019	**Site:**			
Sample #:	**423106-020**	**Client Sample #:**	4-pt comp 01-SP-C3, D2, D3, D4	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1212910		
Antimony	ND	1	3	mg/Kg		12/30/19	SBW	B
Arsenic	ND	1	1	mg/Kg		12/27/19	SBW	J
Barium	**49.2**	1	1	mg/Kg		12/27/19	SBW	
Beryllium	ND	1	0.5	mg/Kg		12/27/19	SBW	
Cadmium	**0.63**	1	0.5	mg/Kg		12/27/19	SBW	
Chromium	**23.4**	1	1	mg/Kg		12/27/19	SBW	
Cobalt	**8.14**	1	0.5	mg/Kg		12/27/19	SBW	
Copper	**47.7**	1	1	mg/Kg		12/30/19	SBW	
Lead	**9.64**	1	1	mg/Kg		12/30/19	SBW	
Molybdenum	ND	1	1	mg/Kg		12/27/19	SBW	
Nickel	**12.0**	1	1.5	mg/Kg		12/30/19	SBW	
Selenium	ND	1	3	mg/Kg		12/27/19	SBW	
Silver	ND	1	0.5	mg/Kg		12/27/19	SBW	
Thallium	ND	1	3	mg/Kg		12/27/19	SBW	
Vanadium	**28.4**	1	0.5	mg/Kg		12/27/19	SBW	
Zinc	**51.4**	1	5	mg/Kg		12/27/19	SBW	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A						QCBatchID: QC1213022		
Mercury	ND	1	0.14	mg/Kg	12/29/19	12/30/19	SBW	
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213156		
4,4'-DDD	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	J
4,4'-DDE	**9.1**	1	5	ug/Kg	01/02/20	01/03/20	MTS	
4,4'-DDT	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	J
a-BHC	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Aldrin	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
b-BHC	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Chlordane (technical)	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
d-BHC	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Dieldrin	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endosulfan I	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endosulfan II	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endosulfan sulfate	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endrin	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endrin aldehyde	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Endrin Ketone	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Heptachlor	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Heptachlor epoxide	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	01/02/20	01/03/20	MTS	
Methoxychlor	ND	1	10	ug/Kg	01/02/20	01/03/20	MTS	
Toxaphene	ND	1	100	ug/Kg	01/02/20	01/03/20	MTS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*37*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*45*	*50-150*	*S*

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8082 *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213157		
PCB-1016	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1221	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1232	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1242	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1248	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1254	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1260	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1262	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	
PCB-1268	ND	1	50	ug/Kg	01/02/20	01/03/20	MTS	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	12/23/2019	**Site:**			
Sample #:	**423106-020**	**Client Sample #:**	4-pt comp 01-SP-C3, D2, D3, D4	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*54*		*50-150*					

QCBatchID:	**QC1209388**	**Analyst:**	sandyw	**Method:**	EPA 8015B
Matrix:	Solid	**Analyzed:**	12/27/2019	**Instrument:**	VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1209388MB1						
TPH (C6 to C12)	ND	mg/Kg		3		
TPH Gasoline	ND	mg/Kg		3		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1209388LCS1											
TPH (C6 to C12)	5		5.6		mg/Kg	112			70-130		
TPH Gasoline	5		5.6		mg/Kg	112			70-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1209388MS1, QC1209388MSD1												**Source: 423106-001**
TPH (C6 to C12)	ND	5	5	4.9	5.0	mg/Kg	98	100	2.0	70-130	20	

QCBatchID: QC1212895	**Analyst:** nicollez	**Method:** EPA 8260B	
Matrix: Solid	**Analyzed:** 12/24/2019	**Instrument:** VOA-MS (group)	

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1212895MB1					
1,1,1,2-Tetrachloroethane	ND	ug/Kg		5	
1,1,1-Trichloroethane	ND	ug/Kg		5	
1,1,2,2-Tetrachloroethane	ND	ug/Kg		5	
1,1,2-Trichloroethane	ND	ug/Kg		5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		5	
1,1-Dichloroethane	ND	ug/Kg		5	
1,1-Dichloroethene	ND	ug/Kg		5	
1,1-Dichloropropene	ND	ug/Kg		5	
1,2,3-Trichlorobenzene	ND	ug/Kg		5	
1,2,3-Trichloropropane	ND	ug/Kg		5	
1,2,4-Trichlorobenzene	ND	ug/Kg		5	
1,2,4-Trimethylbenzene	ND	ug/Kg		5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg		5	
1,2-Dibromoethane	ND	ug/Kg		5	
1,2-Dichlorobenzene	ND	ug/Kg		5	
1,2-Dichloroethane	ND	ug/Kg		5	
1,2-Dichloropropane	ND	ug/Kg		5	
1,3,5-Trimethylbenzene	ND	ug/Kg		5	
1,3-Dichlorobenzene	ND	ug/Kg		5	
1,3-Dichloropropane	ND	ug/Kg		5	
1,4-Dichlorobenzene	ND	ug/Kg		5	
2,2-Dichloropropane	ND	ug/Kg		5	
2-Butanone (MEK)	ND	ug/Kg		100	
2-Chlorotoluene	ND	ug/Kg		5	
4-Chlorotoluene	ND	ug/Kg		5	
4-Isopropyltoluene	ND	ug/Kg		5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		5	
Acetone	ND	ug/Kg		100	
Allyl Chloride	ND	ug/Kg		5	
Benzene	ND	ug/Kg		5	
Bromobenzene	ND	ug/Kg		5	
Bromochloromethane	ND	ug/Kg		5	
Bromodichloromethane	ND	ug/Kg		5	
Bromoform	ND	ug/Kg		5	
Bromomethane	ND	ug/Kg		5	
Carbon Tetrachloride	ND	ug/Kg		5	
Chlorobenzene	ND	ug/Kg		5	
Chlorodibromomethane	ND	ug/Kg		5	
Chloroethane	ND	ug/Kg		5	
Chloroform	ND	ug/Kg		5	
Chloromethane	ND	ug/Kg		5	
cis-1,2-Dichloroethene	ND	ug/Kg		5	
cis-1,3-dichloropropene	ND	ug/Kg		5	
cis-1,4-dichloro-2-butene	ND	ug/Kg		5	
Dibromomethane	ND	ug/Kg		5	
Dichlorodifluoromethane	ND	ug/Kg		5	
Di-isopropyl ether (DIPE)	ND	ug/Kg		5	
Ethylbenzene	ND	ug/Kg		5	
Ethyl-tertbutylether (ETBE)	ND	ug/Kg		5	
Hexachlorobutadiene	ND	ug/Kg		5	
Isopropylbenzene	ND	ug/Kg		5	
m and p-Xylene	ND	ug/Kg		5	

QCBatchID: QC1212895 **Analyst:** nicollez **Method:** EPA 8260B

Matrix: Solid **Analyzed:** 12/24/2019 **Instrument:** VOA-MS (group)

Analyte	Blank Result	Units		RDL	Notes	
QC1212895MB1						
Methylene chloride	ND	ug/Kg		5		
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg		5		
Naphthalene	ND	ug/Kg		5		
N-butylbenzene	ND	ug/Kg		5		
N-propylbenzene	ND	ug/Kg		5		
o-Xylene	ND	ug/Kg		5		
Sec-butylbenzene	ND	ug/Kg		5		
Styrene	ND	ug/Kg		5		
t-Butyl alcohol (TBA)	ND	ug/Kg		10		
Tert-amylmethylether (TAME)	ND	ug/Kg		5		
Tert-butylbenzene	ND	ug/Kg		5		
Tetrachloroethene	ND	ug/Kg		5		
Toluene	ND	ug/Kg		5		
trans-1,2-dichloroethene	ND	ug/Kg		5		
trans-1,3-dichloropropene	ND	ug/Kg		5		
trans-1,4-dichloro-2-butene	ND	ug/Kg		5		
Trichloroethene	ND	ug/Kg		5		
Trichlorofluoromethane	ND	ug/Kg		5		
Vinyl Chloride	ND	ug/Kg		5		
Xylenes (Total)	ND	ug/Kg		5		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1212895LCS1, QC1212895LCSD1											
1,1-Dichloroethene	50	50	73	74	ug/Kg	146	148	1	59-172	22	
Benzene	50	50	64	63	ug/Kg	128	126	2	62-137	24	
Chlorobenzene	50	50	49	47	ug/Kg	98	94	4	60-133	24	
Methyl-t-butyl Ether (MTBE)	50	50	54	52	ug/Kg	108	104	4	62-137	21	
Toluene	50	50	53	51	ug/Kg	106	102	4	59-139	21	
Trichloroethene	50	50	48	46	ug/Kg	96	92	4	66-142	21	

QCBatchID: QC1212910 **Analyst:** rvenegas **Method:** EPA 6010B

Matrix: Solid **Analyzed:** 12/24/2019 **Instrument:** AAICP (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1212910MB1					
Antimony	**3.30**	mg/Kg		3	B
Arsenic	ND	mg/Kg		1	
Barium	ND	mg/Kg		1	
Beryllium	ND	mg/Kg		0.5	
Cadmium	ND	mg/Kg		0.5	
Chromium	ND	mg/Kg		1	
Cobalt	ND	mg/Kg		0.5	
Copper	ND	mg/Kg		1	
Lead	ND	mg/Kg		1	
Molybdenum	ND	mg/Kg		1	
Nickel	ND	mg/Kg		1.5	
Selenium	ND	mg/Kg		3	
Silver	ND	mg/Kg		0.5	
Thallium	ND	mg/Kg		3	
Vanadium	ND	mg/Kg		0.5	
Zinc	ND	mg/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1212910LCS1											
Antimony	100		96.1		mg/Kg	96			80-120		
Arsenic	100		93.8		mg/Kg	94			80-120		
Barium	100		95.8		mg/Kg	96			80-120		
Beryllium	100		91.0		mg/Kg	91			80-120		
Cadmium	100		98.9		mg/Kg	99			80-120		
Chromium	100		93.0		mg/Kg	93			80-120		
Cobalt	100		99.2		mg/Kg	99			80-120		
Copper	100		102		mg/Kg	102			80-120		
Lead	100		100		mg/Kg	100			80-120		
Molybdenum	100		95.4		mg/Kg	95			80-120		
Nickel	100		99.4		mg/Kg	99			80-120		
Selenium	100		86.8		mg/Kg	87			80-120		
Silver	100		89.0		mg/Kg	89			80-120		
Thallium	100		95.5		mg/Kg	96			80-120		
Vanadium	100		94.7		mg/Kg	95			80-120		
Zinc	100		97.1		mg/Kg	97			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1212910MS1, QC1212910MSD1												**Source: 423106-005**
Antimony	ND	100	100	32.1	53.6	mg/Kg	32	54	50.2	75-125	20	M
Arsenic	4.13	100	100	99.3	102	mg/Kg	95	98	2.7	75-125	20	
Barium	54.1	100	100	162	160	mg/Kg	108	106	1.2	75-125	20	
Beryllium	ND	100	100	77.1	98.5	mg/Kg	77	99	24.4	75-125	20	M
Cadmium	0.49	100	100	90.9	100	mg/Kg	90	100	9.5	75-125	20	
Chromium	14.4	100	100	101	111	mg/Kg	87	97	9.4	75-125	20	
Cobalt	7.39	100	100	99.6	109	mg/Kg	92	102	9.0	75-125	20	
Copper	12.8	100	100	95.6	112	mg/Kg	83	99	15.8	75-125	20	
Lead	13.2	100	100	118	177	mg/Kg	105	164	40.0	75-125	20	M
Molybdenum	1.11	100	100	89.8	96.8	mg/Kg	89	96	7.5	75-125	20	

QCBatchID: QC1212910 **Analyst:** rvenegas **Method:** EPA 6010B

Matrix: Solid **Analyzed:** 12/24/2019 **Instrument:** AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1212910MS1, QC1212910MSD1												**Source: 423106-005**
Nickel	9.47	100	100	104	107	mg/Kg	95	98	2.8	75-125	20	
Selenium	ND	100	100	87.1	89.8	mg/Kg	87	90	3.1	75-125	20	
Silver	ND	100	100	86.0	95.3	mg/Kg	86	95	10.3	75-125	20	
Thallium	1.37	100	100	86.6	96.6	mg/Kg	85	95	10.9	75-125	20	
Vanadium	23.5	100	100	118	123	mg/Kg	95	100	4.1	75-125	20	
Zinc	50.4	100	100	141	139	mg/Kg	91	89	1.4	75-125	20	

QCBatchID: QC1212963	Analyst: TWu	Method: EPA 8015M
Matrix: Solid	Analyzed: 12/27/2019	Instrument: SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1212963MB1						
TPH (C10 to C28) (SGT)	ND	mg/Kg		10		
TPH (C13 to C22) (SGT)	ND	mg/Kg		10		
TPH (C13 to C28) (SGT)	ND	mg/Kg		10		
TPH (C29 to C 40) (SGT)	ND	mg/Kg		20		
TPH Diesel (SGT)	ND	mg/Kg		10		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1212963LCS1											
TPH (C10 to C28) (SGT)	250		191		mg/Kg	76			36-138		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1212963MS1, QC1212963MSD1												**Source: 423106-002**
TPH (C10 to C28) (SGT)	ND	250	250	210	224	mg/Kg	84	90	6.5	70-130	30	

QCBatchID: QC1213012	Analyst: lucy	Method: EPA 8260B
Matrix: Solid	Analyzed: 12/28/2019	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213012MB1					
1,1,1,2-Tetrachloroethane	ND	ug/Kg		5	
1,1,1-Trichloroethane	ND	ug/Kg		5	
1,1,2,2-Tetrachloroethane	ND	ug/Kg		5	
1,1,2-Trichloroethane	ND	ug/Kg		5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		5	
1,1-Dichloroethane	ND	ug/Kg		5	
1,1-Dichloroethene	ND	ug/Kg		5	
1,1-Dichloropropene	ND	ug/Kg		5	
1,2,3-Trichlorobenzene	ND	ug/Kg		5	
1,2,3-Trichloropropane	ND	ug/Kg		5	
1,2,4-Trichlorobenzene	ND	ug/Kg		5	
1,2,4-Trimethylbenzene	ND	ug/Kg		5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg		5	
1,2-Dibromoethane	ND	ug/Kg		5	
1,2-Dichlorobenzene	ND	ug/Kg		5	
1,2-Dichloroethane	ND	ug/Kg		5	
1,2-Dichloropropane	ND	ug/Kg		5	
1,3,5-Trimethylbenzene	ND	ug/Kg		5	
1,3-Dichlorobenzene	ND	ug/Kg		5	
1,3-Dichloropropane	ND	ug/Kg		5	
1,4-Dichlorobenzene	ND	ug/Kg		5	
2,2-Dichloropropane	ND	ug/Kg		5	
2-Butanone (MEK)	ND	ug/Kg		100	
2-Chlorotoluene	ND	ug/Kg		5	
4-Chlorotoluene	ND	ug/Kg		5	
4-Isopropyltoluene	ND	ug/Kg		5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		5	
Acetone	ND	ug/Kg		100	
Allyl Chloride	ND	ug/Kg		5	
Benzene	ND	ug/Kg		5	
Bromobenzene	ND	ug/Kg		5	
Bromochloromethane	ND	ug/Kg		5	
Bromodichloromethane	ND	ug/Kg		5	
Bromoform	ND	ug/Kg		5	
Bromomethane	ND	ug/Kg		5	
Carbon Tetrachloride	ND	ug/Kg		5	
Chlorobenzene	ND	ug/Kg		5	
Chlorodibromomethane	ND	ug/Kg		5	
Chloroethane	ND	ug/Kg		5	
Chloroform	ND	ug/Kg		5	
Chloromethane	ND	ug/Kg		5	
cis-1,2-Dichloroethene	ND	ug/Kg		5	
cis-1,3-dichloropropene	ND	ug/Kg		5	
cis-1,4-dichloro-2-butene	ND	ug/Kg		5	
Dibromomethane	ND	ug/Kg		5	
Dichlorodifluoromethane	ND	ug/Kg		5	
Ethylbenzene	ND	ug/Kg		5	
Hexachlorobutadiene	ND	ug/Kg		5	
Isopropylbenzene	ND	ug/Kg		5	
m and p-Xylene	ND	ug/Kg		5	
Methylene chloride	ND	ug/Kg		5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg		5	

QCBatchID: QC1213012 **Analyst:** lucy **Method:** EPA 8260B

Matrix: Solid **Analyzed:** 12/28/2019 **Instrument:** VOA-MS (group)

Analyte	Blank Result	Units		RDL	Notes
QC1213012MB1					
Naphthalene	ND	ug/Kg		5	
N-butylbenzene	ND	ug/Kg		5	
N-propylbenzene	ND	ug/Kg		5	
o-Xylene	ND	ug/Kg		5	
Sec-butylbenzene	ND	ug/Kg		5	
Styrene	ND	ug/Kg		5	
Tert-butylbenzene	ND	ug/Kg		5	
Tetrachloroethene	ND	ug/Kg		5	
Toluene	ND	ug/Kg		5	
trans-1,2-dichloroethene	ND	ug/Kg		5	
trans-1,3-dichloropropene	ND	ug/Kg		5	
trans-1,4-dichloro-2-butene	ND	ug/Kg		5	
Trichloroethene	ND	ug/Kg		5	
Trichlorofluoromethane	ND	ug/Kg		5	
Vinyl Chloride	ND	ug/Kg		5	
Xylenes (Total)	ND	ug/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213012LCS1											
1,1-Dichloroethene	50		52		ug/Kg	104			59-172		
Benzene	50		50		ug/Kg	100			62-137		
Chlorobenzene	50		48		ug/Kg	96			60-133		
Methyl-t-butyl Ether (MTBE)	50		45		ug/Kg	90			62-137		
Toluene	50		48		ug/Kg	96			59-139		
Trichloroethene	50		46		ug/Kg	92			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213012MS1, QC1213012MSD1												**Source: 423106-002**
1,1-Dichloroethene	ND	50	50	48	51	ug/Kg	96	102	6.1	59-172	22	
Benzene	ND	50	50	46	49	ug/Kg	92	98	6.3	62-137	24	
Chlorobenzene	ND	50	50	43	47	ug/Kg	86	94	8.9	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	45	47	ug/Kg	90	94	4.3	62-137	21	
Toluene	ND	50	50	44	47	ug/Kg	88	94	6.6	59-139	21	
Trichloroethene	ND	50	50	43	47	ug/Kg	86	94	8.9	66-142	21	

QCBatchID: QC1213022 **Analyst:** dswafford **Method:** EPA 7471A

Matrix: Solid **Analyzed:** 12/29/2019 **Instrument:** AAICP-HG1

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1213022MB1						
Mercury	ND	mg/Kg		0.14		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213022LCS1											
Mercury	0.83		0.86		mg/Kg	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213022MS1, QC1213022MSD1												**Source: 423106-005**
Mercury	0.05	0.83	0.83	0.79	0.84	mg/Kg	89	95	6.1	75-125	20	

QCBatchID: QC1213147 **Analyst:** bmorris **Method:** EPA 8270CM

Matrix: Solid **Analyzed:** 01/02/2020 **Instrument:** SVOA-MS (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213147MB1					
1-Methylnaphthalene	ND	ug/Kg		10	
2-Methylnaphthalene	ND	ug/Kg		10	
Acenaphthene	ND	ug/Kg		10	
Acenaphthylene	ND	ug/Kg		10	
Anthracene	ND	ug/Kg		10	
Benz(a)anthracene	ND	ug/Kg		10	
Benzo(a)pyrene	ND	ug/Kg		10	
Benzo(b)fluoranthene	ND	ug/Kg		10	
Benzo(g,h,i)perylene	ND	ug/Kg		10	
Benzo(k)fluoranthene	ND	ug/Kg		10	
Chrysene	ND	ug/Kg		10	
Dibenz(a,h)anthracene	ND	ug/Kg		10	
Fluoranthene	ND	ug/Kg		10	
Fluorene	ND	ug/Kg		10	
Indeno(1,2,3-cd)pyrene	ND	ug/Kg		10	
Naphthalene	ND	ug/Kg		10	
Phenanthrene	ND	ug/Kg		10	
Pyrene	ND	ug/Kg		10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213147LCS1											
1-Methylnaphthalene	50		40		ug/Kg	80			28-130		
2-Methylnaphthalene	50		43		ug/Kg	86			33-130		
Acenaphthene	50		43		ug/Kg	86			32-130		
Acenaphthylene	50		46		ug/Kg	92			28-130		
Anthracene	50		34		ug/Kg	68			34-130		
Benz(a)anthracene	50		40		ug/Kg	80			30-132		
Benzo(a)pyrene	50		26		ug/Kg	52			10-138		
Benzo(b)fluoranthene	50		40		ug/Kg	80			32-137		
Benzo(g,h,i)perylene	50		34		ug/Kg	68			27-130		
Benzo(k)fluoranthene	50		37		ug/Kg	74			32-130		
Chrysene	50		38		ug/Kg	76			29-130		
Dibenz(a,h)anthracene	50		36		ug/Kg	72			32-130		
Fluoranthene	50		47		ug/Kg	94			34-130		
Fluorene	50		44		ug/Kg	88			35-130		
Indeno(1,2,3-cd)pyrene	50		37		ug/Kg	74			34-132		
Naphthalene	50		43		ug/Kg	86			25-130		
Phenanthrene	50		38		ug/Kg	76			35-130		
Pyrene	50		45		ug/Kg	90			35-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213147MS1, QC1213147MSD1												**Source: 423096-002**
1-Methylnaphthalene	ND	50	50	43	41	ug/Kg	86	82	4.8	25-130	35	
2-Methylnaphthalene	ND	50	50	46	43	ug/Kg	92	86	6.7	32-133	35	
Acenaphthene	ND	50	50	45	41	ug/Kg	90	82	9.3	28-134	35	
Acenaphthylene	ND	50	50	51	49	ug/Kg	102	98	4.0	14-157	35	
Anthracene	ND	50	50	49	46	ug/Kg	98	92	6.3	24-156	35	
Benz(a)anthracene	ND	50	50	53	52	ug/Kg	106	104	1.9	26-174	35	

QCBatchID: QC1213147 **Analyst:** bmorris **Method:** EPA 8270CM

Matrix: Solid **Analyzed:** 01/02/2020 **Instrument:** SVOA-MS (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213147MS1, QC1213147MSD1												**Source: 423096-002**
Benzo(a)pyrene	ND	50	50	41	40	ug/Kg	82	80	2.5	18-173	35	
Benzo(b)fluoranthene	ND	50	50	47	45	ug/Kg	94	90	4.3	36-164	35	
Benzo(g,h,i)perylene	ND	50	50	37	34	ug/Kg	74	68	8.5	36-130	35	
Benzo(k)fluoranthene	ND	50	50	43	43	ug/Kg	86	86	0.0	36-161	35	
Chrysene	ND	50	50	45	43	ug/Kg	90	86	4.5	40-139	35	
Dibenz(a,h)anthracene	ND	50	50	36	35	ug/Kg	72	70	2.8	38-132	35	
Fluoranthene	ND	50	50	55	53	ug/Kg	110	106	3.7	28-160	35	
Fluorene	ND	50	50	47	43	ug/Kg	94	86	8.9	27-140	35	
Indeno(1,2,3-cd)pyrene	ND	50	50	38	36	ug/Kg	76	72	5.4	26-154	35	
Naphthalene	ND	50	50	46	41	ug/Kg	92	82	11.5	33-130	35	
Phenanthrene	ND	50	50	49	46	ug/Kg	98	92	6.3	29-147	35	
Pyrene	ND	50	50	51	49	ug/Kg	102	98	4.0	26-153	35	

QCBatchID: QC1213156	**Analyst:** bmorris	**Method:** EPA 8081A	
Matrix: Solid	**Analyzed:** 01/02/2020	**Instrument:** SVOA-GC (group)	

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213156MB1					
4,4'-DDD	ND	ug/Kg		5	
4,4'-DDE	ND	ug/Kg		5	
4,4'-DDT	ND	ug/Kg		5	
a-BHC	ND	ug/Kg		5	
Aldrin	ND	ug/Kg		5	
b-BHC	ND	ug/Kg		5	
Chlordane (technical)	ND	ug/Kg		50	
d-BHC	ND	ug/Kg		5	
Dieldrin	ND	ug/Kg		5	
Endosulfan I	ND	ug/Kg		5	
Endosulfan II	ND	ug/Kg		5	
Endosulfan sulfate	ND	ug/Kg		5	
Endrin	ND	ug/Kg		5	
Endrin aldehyde	ND	ug/Kg		5	
Endrin Ketone	ND	ug/Kg		5	
Heptachlor	ND	ug/Kg		5	
Heptachlor epoxide	ND	ug/Kg		5	
Lindane (Gamma-BHC)	ND	ug/Kg		5	
Methoxychlor	ND	ug/Kg		10	
Toxaphene	ND	ug/Kg		100	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213156LCS1											
4,4'-DDD	50		29		ug/Kg	58			43-172		
4,4'-DDE	50		31		ug/Kg	62			44-163		
4,4'-DDT	50		32		ug/Kg	64			40-158		
a-BHC	50		32		ug/Kg	64			45-150		
Aldrin	50		28		ug/Kg	56			46-142		
b-BHC	50		31		ug/Kg	62			42-156		
d-BHC	50		31		ug/Kg	62			37-161		
Dieldrin	50		30		ug/Kg	60			47-151		
Endosulfan I	50		32		ug/Kg	64			47-141		
Endosulfan II	50		29		ug/Kg	58			44-156		
Endosulfan sulfate	50		31		ug/Kg	62			43-157		
Endrin	50		33		ug/Kg	66			47-160		
Endrin aldehyde	50		16		ug/Kg	32			32-127		
Endrin Ketone	50		29		ug/Kg	58			48-159		
Heptachlor	50		30		ug/Kg	60			50-144		
Heptachlor epoxide	50		29		ug/Kg	58			48-145		
Lindane (Gamma-BHC)	50		33		ug/Kg	66			47-151		
Methoxychlor	50		32		ug/Kg	64			36-182		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213156MS1, QC1213156MSD1												**Source: 423096-001**
4,4'-DDD	ND	50	50	33	29	ug/Kg	66	58	12.9	43-172	20	
4,4'-DDE	ND	50	50	36	33	ug/Kg	72	66	8.7	44-163	20	
4,4'-DDT	ND	50	50	39	34	ug/Kg	78	68	13.7	40-158	20	
a-BHC	ND	50	50	36	33	ug/Kg	72	66	8.7	45-150	20	

QCBatchID: QC1213156 **Analyst:** bmorris **Method:** EPA 8081A

Matrix: Solid **Analyzed:** 01/02/2020 **Instrument:** SVOA-GC (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213156MS1, QC1213156MSD1												**Source: 423096-001**
Aldrin	ND	50	50	34	32	ug/Kg	68	64	6.1	46-142	20	
b-BHC	ND	50	50	33	31	ug/Kg	66	62	6.3	42-156	20	
d-BHC	ND	50	50	33	31	ug/Kg	66	62	6.3	37-161	20	
Dieldrin	ND	50	50	34	31	ug/Kg	68	62	9.2	47-151	20	
Endosulfan I	ND	50	50	37	33	ug/Kg	74	66	11.4	47-141	20	
Endosulfan II	ND	50	50	34	31	ug/Kg	68	62	9.2	44-156	20	
Endosulfan sulfate	ND	50	50	35	30	ug/Kg	70	60	15.4	43-157	20	
Endrin	ND	50	50	36	33	ug/Kg	72	66	8.7	47-160	20	
Endrin aldehyde	ND	50	50	27	23	ug/Kg	54	46	16.0	32-127	20	
Endrin Ketone	ND	50	50	33	29	ug/Kg	66	58	12.9	48-159	20	
Heptachlor	ND	50	50	35	32	ug/Kg	70	64	9.0	50-144	20	
Heptachlor epoxide	ND	50	50	34	31	ug/Kg	68	62	9.2	48-145	20	
Lindane (Gamma-BHC)	ND	50	50	37	35	ug/Kg	74	70	5.6	47-151	20	
Methoxychlor	ND	50	50	44	41	ug/Kg	88	82	7.1	36-182	20	

QCBatchID:	**QC1213157**	**Analyst:**	bmorris	**Method:**	EPA 8082
Matrix:	Solid	**Analyzed:**	01/02/2020	**Instrument:**	SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213157MB1					
PCB-1016	ND	ug/Kg		50	
PCB-1221	ND	ug/Kg		50	
PCB-1232	ND	ug/Kg		50	
PCB-1242	ND	ug/Kg		50	
PCB-1248	ND	ug/Kg		50	
PCB-1254	ND	ug/Kg		50	
PCB-1260	ND	ug/Kg		50	
PCB-1262	ND	ug/Kg		50	
PCB-1268	ND	ug/Kg		50	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213157LCS1											
PCB-1016	500		410		ug/Kg	82			70-130		
PCB-1260	500		400		ug/Kg	80			70-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213157MS1, QC1213157MSD1												**Source: 423096-001**
PCB-1016	ND	500	500	370	410	ug/Kg	74	82	10.3	70-130	20	
PCB-1260	ND	500	500	360	420	ug/Kg	72	84	15.4	70-130	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL		Chain of Custody Record		Turn Around Time (Rush by advanced notice only)								
931 W. Barkley Ave., Orange, CA 92868		Lab No: 923106		Standard:	✓	4 Day:		3 Day:				
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 1 of 2		2 Day:		1 Day:		Same Day:				
Billing: Enthalpy Analytical		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other		Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other								
1 Park Plaza, Suite 1000												
Irvine, CA 92614												

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	ENGEO	Name:	Former La Puerta School
Report To:	Adrianna Lundberg	Number:	16664.000.000
Email:	alundberg@engeo.com	P.O. #:	
Address:	6 Morgan Suite 162	Address:	2475 Forbes Avenue
	Irvine, CA		Claremont, CA 92660
Phone:	949.579.2268	Global ID:	
Fax:		Sampled By:	Jennifer Knipper

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	8270 SIM - SVOCs	8015 M TPH-g, TPH-d, TPH-mo	8260 M -VOCs		8082 M - PCBs	6010/7147A - CAM-17 Metals	8081 M - Organochlorine pesticides (OCPS)				Test Instructions / Comments
1	01-SP-A3	12/23/2019	0900	soil	1 / 2x6	-	✓	✓	✓		X	X	X				4-pt comp for PCBs, OCPS, CAM-17 metals,
2	01-SP-A4	12/23/2019	0910	soil	1 / 2x6	-	✓	✓	✓		X	X	X				
3	01-SP-A5	12/23/2019	0915	soil	1 / 2x6	-	✓	✓	✓		X	X	X				
4	01-SP-B3	12/23/2019	0925	soil	1 / 2x6	-	✓	✓	✓		X	X	X				
5																	
6	01-SP-B1	12/23/2019	0935	soil	1 / 2x6	-	✓	✓	✓		X	X	X				4-pt comp for PCBs, OCPS, CAM-17 metals,
7	01-SP-B2	12/23/2019	0940	soil	1 / 2x6	-	✓	✓	✓		X	X	X				
8	01-SP-C1	12/23/2019	0950	soil	1 / 2x6	-	✓	✓	✓		X	X	X				
9	01-SP-C2	12/23/2019	1000	soil	1 / 2x6	-	✓	✓	✓		X	X	X				
10																	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Jennifer Knipper	ENGEO / Staff Geologist	12/23/2019 / 1216
[1] Received By:		GKim	EA	12/23/19 1216
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

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ENTHALPY ANALYTICAL	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714) 538-1209	Lab No:	Standard: ✓ 4 Day: 3 Day:
Billing: Enthalpy Analytical 1 Park Plaza, Suite 1000 Irvine, CA 92614	Page: 2 of 2	2 Day: 1 Day: Same Day:
	Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	ENGEO	Name:	Former La Puerta School
Report To:	Adrianna Lundberg	Number:	16664.000.000
Email:	alundberg@engeo.com	P.O. #:	
Address:	6 Morgan Suite 162	Address:	2475 Forbes Avenue
	Irvine, CA		Claremont, CA 92660
Phone:	949.579.2268	Global ID:	
Fax:		Sampled By:	Jennifer Knipper

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	8270 SIM - SVOCs	8015 M TPH-g, TPH-d, TPH-mo	8260 M -VOCs		8082 M - PCBs	6010/7147A - CAM-17 Metals	8081 M - Organochlorine pesticides (OCPS)			Test Instructions / Comments
1	01-SP-B4	12/23/2019	1015	soil	1 / 2x6	-	✓	✓	✓		X	X	X			4-pt comp for PCBs, OCPS, CAM-17 metals,
2	01-SP-B5	12/23/2019	1020	soil	1 / 2x6	-	✓	✓	✓		X	X	X			
3	01-SP-C4	12/23/2019	1030	soil	1 / 2x6	-	✓	✓	✓		X	X	X			
4	01-SP-C5	12/23/2019	1035	soil	1 / 2x6	-	✓	✓	✓		X	X	X			
5																
6	01-SP-C3	12/23/2019	1045	soil	1 / 2x6	-	✓	✓	✓		X	X	X			4-pt comp for PCBs, OCPS, CAM-17 metals,
7	01-SP-D2	12/23/2019	1050	soil	1 / 2x6	-	✓	✓	✓		X	X	X			
8	01-SP-D3	12/23/2019	1055	soil	1 / 2x6	-	✓	✓	✓		X	X	X			
9	01-SP-D4	12/23/2019	1105	soil	1 / 2x6	-	✓	✓	✓		X	X	X			
10																

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Jennifer Knipper	ENGEO / Staff Geologist	12/23/2019 / 1216
[1] Received By:		G. Kim	EA	12/23/19 1216
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

18-6/02

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Engeo Project: Former La Puerta School

Date Received: 12/23/19 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 18.6 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☐ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 0.2 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 12/23/19

Enthalpy Analytical, a subsidiary of Montrose Environmental Group ,Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: ENGEO Inc.
Address: 6 Morgan, Suite 162
Irvine, CA 92618-1922

Attn: Adrianna Lundberg

Comments: Former La Puerta School
16664.000.000

Revised Report

Lab Request: 424016
Report Date: 01/31/2020
Date Received: 01/21/2020
Client ID: 15790

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
424016-001	02-SP-01
424016-002	02-SP-02
424016-003	02-SP-03
424016-004	02-SP-04
424016-005	02-SP-05
424016-006	02-SP-06
424016-007	02-SP-07
424016-008	02-SP-08
424016-009	4-pt comp 02-SP-01, 02, 03, 04
424016-010	4-pt comp 02-SP-05, 06, 07, 08

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Diane M. Galvan

Report Review performed by: Diane Galvan, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date received.

ACCREDITED IN ACCORDANCE WITH nelac

Detections Summary

Sample #: 424016-001 **Client Sample #:** 02-SP-01

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8015M	TPH (C13 to C28) (SGT)	11.4	1	10	mg/Kg	
EPA 8015M	TPH (C29 to C 40) (SGT)	24.6	1	20	mg/Kg	

Sample #: 424016-002 **Client Sample #:** 02-SP-02

No analyte detected

Sample #: 424016-003 **Client Sample #:** 02-SP-03

No analyte detected

Sample #: 424016-004 **Client Sample #:** 02-SP-04

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8015M	TPH (C13 to C28) (SGT)	12.0	1	10	mg/Kg	
EPA 8015M	TPH (C29 to C 40) (SGT)	42.6	1	20	mg/Kg	

Sample #: 424016-005 **Client Sample #:** 02-SP-05

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8015M	TPH (C13 to C28) (SGT)	36.8	1	10	mg/Kg	
EPA 8015M	TPH (C29 to C 40) (SGT)	46.2	1	20	mg/Kg	

Sample #: 424016-006 **Client Sample #:** 02-SP-06

No analyte detected

Sample #: 424016-007 **Client Sample #:** 02-SP-07

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8270CM	Benz(a)anthracene	17	1	10	ug/Kg	
EPA 8270CM	Benzo(a)pyrene	18	1	10	ug/Kg	
EPA 8270CM	Benzo(b)fluoranthene	12	1	10	ug/Kg	
EPA 8270CM	Benzo(k)fluoranthene	14	1	10	ug/Kg	
EPA 8270CM	Chrysene	17	1	10	ug/Kg	
EPA 8270CM	Fluoranthene	29	1	10	ug/Kg	
EPA 8270CM	Phenanthrene	10	1	10	ug/Kg	
EPA 8270CM	Pyrene	31	1	10	ug/Kg	

Sample #: 424016-008 **Client Sample #:** 02-SP-08

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 8270CM	Benz(a)anthracene	53	1	10	ug/Kg	
EPA 8270CM	Benzo(a)pyrene	47	1	10	ug/Kg	
EPA 8270CM	Benzo(b)fluoranthene	33	1	10	ug/Kg	
EPA 8270CM	Benzo(g,h,i)perylene	16	1	10	ug/Kg	
EPA 8270CM	Benzo(k)fluoranthene	42	1	10	ug/Kg	
EPA 8270CM	Chrysene	53	1	10	ug/Kg	
EPA 8270CM	Fluoranthene	81	1	10	ug/Kg	
EPA 8270CM	Indeno(1,2,3-cd)pyrene	20	1	10	ug/Kg	
EPA 8270CM	Phenanthrene	27	1	10	ug/Kg	
EPA 8270CM	Pyrene	83	1	10	ug/Kg	

Sample #: 424016-009 **Client Sample #:** 4-pt comp 02-SP-01, 02, 03, 04

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Arsenic	2.16	1	1	mg/Kg	
EPA 6010B	Barium	93.3	1	1	mg/Kg	

Detections Summary

Sample #: **424016-009** **Client Sample #:** 4-pt comp 02-SP-01, 02, 03, 04

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Chromium	14.2	1	1	mg/Kg	
EPA 6010B	Cobalt	7.59	1	0.5	mg/Kg	
EPA 6010B	Copper	15.2	1	1	mg/Kg	
EPA 6010B	Lead	9.77	1	1	mg/Kg	
EPA 6010B	Nickel	12.1	1	1.5	mg/Kg	
EPA 6010B	Vanadium	34.0	1	0.5	mg/Kg	
EPA 6010B	Zinc	52.3	1	5	mg/Kg	
EPA 8081A	4,4'-DDE	12	2	10	ug/Kg	D2

Sample #: **424016-010** **Client Sample #:** 4-pt comp 02-SP-05, 06, 07, 08

Method	Analyte	Result	DF	RDL	Units	Notes
EPA 6010B	Arsenic	5.90	1	1	mg/Kg	
EPA 6010B	Barium	73.7	1	1	mg/Kg	
EPA 6010B	Cadmium	0.63	1	0.5	mg/Kg	
EPA 6010B	Chromium	18.4	1	1	mg/Kg	
EPA 6010B	Cobalt	10.5	1	0.5	mg/Kg	
EPA 6010B	Copper	22.9	1	1	mg/Kg	
EPA 6010B	Lead	19.4	1	1	mg/Kg	
EPA 6010B	Nickel	16.0	1	1.5	mg/Kg	
EPA 6010B	Vanadium	42.4	1	0.5	mg/Kg	
EPA 6010B	Zinc	75.9	1	5	mg/Kg	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 12:40	**Site:**			
Sample #:	**424016-001**	**Client Sample #:**	02-SP-01	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213800		
TPH (C6 to C12)	ND	1	3	mg/Kg		01/22/20	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213881		
TPH (C13 to C28) (SGT)	**11.4**	1	10	mg/Kg		01/27/20	TW	
TPH (C29 to C 40) (SGT)	**24.6**	1	20	mg/Kg		01/27/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*79*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213785		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		01/22/20	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		01/22/20	LZ	
Acetone	ND	1	100	ug/Kg		01/22/20	LZ	
Allyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Benzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromochloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromoform	ND	1	5	ug/Kg		01/22/20	LZ	
Bromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroform	ND	1	5	ug/Kg		01/22/20	LZ	
Chloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 12:40	**Site:**			
Sample #:	**424016-001**	**Client Sample #:**	02-SP-01	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Ethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		01/22/20	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
m and p-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Methylene chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		01/22/20	LZ	
Naphthalene	ND	1	5	ug/Kg		01/22/20	LZ	
N-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
N-propylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
o-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Styrene	ND	1	5	ug/Kg		01/22/20	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Toluene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		01/22/20	LZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*98*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*97*	*70-145*	
Dibromofluoromethane (SUR)	*96*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213896

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1-Methylnaphthalene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
2-Methylnaphthalene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Acenaphthene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Acenaphthylene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Anthracene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Benz(a)anthracene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(a)pyrene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(b)fluoranthene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(g,h,i)perylene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(k)fluoranthene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Chrysene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Dibenz(a,h)anthracene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Fluoranthene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Fluorene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Indeno(1,2,3-cd)pyrene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Naphthalene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Phenanthrene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Pyrene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*94*	*30-120*	
Nitrobenzene-d5 (SUR)	*67*	*27-125*	
p-Terphenyl (SUR)	*81*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 12:30	**Site:**			
Sample #:	**424016-002**	**Client Sample #:**	02-SP-02	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213800		
TPH (C6 to C12)	ND	1	3	mg/Kg		01/22/20	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213881		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		01/27/20	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		01/27/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*78*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213785		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		01/22/20	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		01/22/20	LZ	
Acetone	ND	1	100	ug/Kg		01/22/20	LZ	
Allyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Benzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromochloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromoform	ND	1	5	ug/Kg		01/22/20	LZ	
Bromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroform	ND	1	5	ug/Kg		01/22/20	LZ	
Chloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 12:30	**Site:**			
Sample #:	**424016-002**	**Client Sample #:**	02-SP-02	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Ethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		01/22/20	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
m and p-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Methylene chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		01/22/20	LZ	
Naphthalene	ND	1	5	ug/Kg		01/22/20	LZ	
N-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
N-propylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
o-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Styrene	ND	1	5	ug/Kg		01/22/20	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Toluene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		01/22/20	LZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*98*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*98*	*70-145*	
Dibromofluoromethane (SUR)	*98*	*70-145*	
Toluene-d8 (SUR)	*99*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213896

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1-Methylnaphthalene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
2-Methylnaphthalene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Acenaphthene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Acenaphthylene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Anthracene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Benz(a)anthracene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(a)pyrene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(b)fluoranthene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(g,h,i)perylene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(k)fluoranthene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Chrysene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Dibenz(a,h)anthracene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Fluoranthene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Fluorene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Indeno(1,2,3-cd)pyrene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Naphthalene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Phenanthrene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Pyrene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*77*	*30-120*	
Nitrobenzene-d5 (SUR)	*73*	*27-125*	
p-Terphenyl (SUR)	*67*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 12:20	**Site:**			
Sample #:	**424016-003**	**Client Sample #:**	02-SP-03	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213800		
TPH (C6 to C12)	ND	1	3	mg/Kg		01/22/20	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213881		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		01/27/20	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		01/27/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*81*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213785		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		01/22/20	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		01/22/20	LZ	
Acetone	ND	1	100	ug/Kg		01/22/20	LZ	
Allyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Benzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromochloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromoform	ND	1	5	ug/Kg		01/22/20	LZ	
Bromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroform	ND	1	5	ug/Kg		01/22/20	LZ	
Chloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 12:20	**Site:**			
Sample #:	**424016-003**	**Client Sample #:**	02-SP-03	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Ethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		01/22/20	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
m and p-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Methylene chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		01/22/20	LZ	
Naphthalene	ND	1	5	ug/Kg		01/22/20	LZ	
N-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
N-propylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
o-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Styrene	ND	1	5	ug/Kg		01/22/20	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Toluene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		01/22/20	LZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*97*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*100*	*70-145*	
Dibromofluoromethane (SUR)	*97*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213896

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1-Methylnaphthalene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
2-Methylnaphthalene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Acenaphthene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Acenaphthylene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Anthracene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Benz(a)anthracene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(a)pyrene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(b)fluoranthene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(g,h,i)perylene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(k)fluoranthene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Chrysene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Dibenz(a,h)anthracene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Fluoranthene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Fluorene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Indeno(1,2,3-cd)pyrene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Naphthalene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Phenanthrene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2
Pyrene	ND	2	20	ug/Kg	01/24/20	01/30/20	CBR	D2

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*58*	*30-120*	
Nitrobenzene-d5 (SUR)	*50*	*27-125*	
p-Terphenyl (SUR)	*72*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 12:10	**Site:**			
Sample #:	**424016-004**	**Client Sample #:**	02-SP-04	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213800		
TPH (C6 to C12)	ND	1	3	mg/Kg		01/22/20	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*100*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213881		
TPH (C13 to C28) (SGT)	**12.0**	1	10	mg/Kg		01/27/20	TW	
TPH (C29 to C 40) (SGT)	**42.6**	1	20	mg/Kg		01/27/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*80*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213785		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		01/22/20	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		01/22/20	LZ	
Acetone	ND	1	100	ug/Kg		01/22/20	LZ	
Allyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Benzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromochloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromoform	ND	1	5	ug/Kg		01/22/20	LZ	
Bromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroform	ND	1	5	ug/Kg		01/22/20	LZ	
Chloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 12:10	**Site:**			
Sample #:	**424016-004**	**Client Sample #:**	02-SP-04	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Ethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		01/22/20	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
m and p-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Methylene chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		01/22/20	LZ	
Naphthalene	ND	1	5	ug/Kg		01/22/20	LZ	
N-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
N-propylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
o-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Styrene	ND	1	5	ug/Kg		01/22/20	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Toluene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		01/22/20	LZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*98*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*98*	*70-145*	
Dibromofluoromethane (SUR)	*96*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213896

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1-Methylnaphthalene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
2-Methylnaphthalene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Acenaphthene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Acenaphthylene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Anthracene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Benz(a)anthracene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(a)pyrene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(b)fluoranthene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(g,h,i)perylene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(k)fluoranthene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Chrysene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Dibenz(a,h)anthracene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Fluoranthene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Fluorene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Indeno(1,2,3-cd)pyrene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Naphthalene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Phenanthrene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2
Pyrene	ND	20	200	ug/Kg	01/24/20	01/30/20	CBR	D2

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*80*	*30-120*	
Nitrobenzene-d5 (SUR)	*49*	*27-125*	
p-Terphenyl (SUR)	*83*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 11:45	**Site:**			
Sample #:	**424016-005**	**Client Sample #:**	02-SP-05	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213800		
TPH (C6 to C12)	ND	1	3	mg/Kg		01/22/20	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*85*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213881		
TPH (C13 to C28) (SGT)	**36.8**	1	10	mg/Kg		01/27/20	TW	
TPH (C29 to C 40) (SGT)	**46.2**	1	20	mg/Kg		01/27/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*109*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213785		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		01/22/20	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		01/22/20	LZ	
Acetone	ND	1	100	ug/Kg		01/22/20	LZ	
Allyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Benzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromochloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromoform	ND	1	5	ug/Kg		01/22/20	LZ	
Bromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroform	ND	1	5	ug/Kg		01/22/20	LZ	
Chloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 11:45	**Site:**			
Sample #:	**424016-005**	**Client Sample #:**	02-SP-05	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Ethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		01/22/20	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
m and p-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Methylene chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		01/22/20	LZ	
Naphthalene	ND	1	5	ug/Kg		01/22/20	LZ	
N-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
N-propylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
o-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Styrene	ND	1	5	ug/Kg		01/22/20	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Toluene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		01/22/20	LZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*99*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*102*	*70-145*	
Dibromofluoromethane (SUR)	*97*	*70-145*	
Toluene-d8 (SUR)	*104*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213896

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1-Methylnaphthalene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
2-Methylnaphthalene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Acenaphthene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Acenaphthylene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Anthracene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Benz(a)anthracene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(a)pyrene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(b)fluoranthene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(g,h,i)perylene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(k)fluoranthene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Chrysene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Dibenz(a,h)anthracene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Fluoranthene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Fluorene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Indeno(1,2,3-cd)pyrene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Naphthalene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Phenanthrene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2
Pyrene	ND	10	100	ug/Kg	01/24/20	01/30/20	CBR	D2

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*67*	*30-120*	
Nitrobenzene-d5 (SUR)	*53*	*27-125*	
p-Terphenyl (SUR)	*75*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 11:55	**Site:**			
Sample #:	**424016-006**	**Client Sample #:**	02-SP-06	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213800		
TPH (C6 to C12)	ND	1	3	mg/Kg		01/22/20	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*90*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213881		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		01/27/20	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		01/27/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*85*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213785		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		01/22/20	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		01/22/20	LZ	
Acetone	ND	1	100	ug/Kg		01/22/20	LZ	
Allyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Benzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromochloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromoform	ND	1	5	ug/Kg		01/22/20	LZ	
Bromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroform	ND	1	5	ug/Kg		01/22/20	LZ	
Chloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 11:55	**Site:**			
Sample #:	**424016-006**	**Client Sample #:**	02-SP-06	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Ethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		01/22/20	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
m and p-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Methylene chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		01/22/20	LZ	
Naphthalene	ND	1	5	ug/Kg		01/22/20	LZ	
N-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
N-propylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
o-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Styrene	ND	1	5	ug/Kg		01/22/20	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Toluene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		01/22/20	LZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*101*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*99*	*70-145*	
Dibromofluoromethane (SUR)	*98*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213896

1-Methylnaphthalene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
2-Methylnaphthalene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Acenaphthene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Acenaphthylene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Anthracene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Benz(a)anthracene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(a)pyrene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(b)fluoranthene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(g,h,i)perylene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Benzo(k)fluoranthene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Chrysene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Dibenz(a,h)anthracene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Fluoranthene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Fluorene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Indeno(1,2,3-cd)pyrene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Naphthalene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Phenanthrene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2
Pyrene	ND	5	50	ug/Kg	01/24/20	01/30/20	CBR	D2

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*44*	*30-120*	
Nitrobenzene-d5 (SUR)	*35*	*27-125*	
p-Terphenyl (SUR)	*45*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 11:25	**Site:**			
Sample #:	**424016-007**	**Client Sample #:**	02-SP-07	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213800		
TPH (C6 to C12)	ND	1	3	mg/Kg		01/22/20	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*100*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213881		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		01/27/20	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		01/27/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*77*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213785		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		01/22/20	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		01/22/20	LZ	
Acetone	ND	1	100	ug/Kg		01/22/20	LZ	
Allyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Benzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromochloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromoform	ND	1	5	ug/Kg		01/22/20	LZ	
Bromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroform	ND	1	5	ug/Kg		01/22/20	LZ	
Chloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 11:25	**Site:**			
Sample #:	**424016-007**	**Client Sample #:**	02-SP-07	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Ethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		01/22/20	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
m and p-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Methylene chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		01/22/20	LZ	
Naphthalene	ND	1	5	ug/Kg		01/22/20	LZ	
N-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
N-propylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
o-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Styrene	ND	1	5	ug/Kg		01/22/20	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Toluene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		01/22/20	LZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*99*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*98*	*70-145*	
Dibromofluoromethane (SUR)	*97*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213896

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1-Methylnaphthalene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Acenaphthene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Acenaphthylene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Anthracene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Benz(a)anthracene	**17**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Benzo(a)pyrene	**18**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Benzo(b)fluoranthene	**12**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Benzo(g,h,i)perylene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Benzo(k)fluoranthene	**14**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Chrysene	**17**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Dibenz(a,h)anthracene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Fluoranthene	**29**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Fluorene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Indeno(1,2,3-cd)pyrene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Naphthalene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Phenanthrene	**10**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Pyrene	**31**	1	10	ug/Kg	01/24/20	01/30/20	CBR	

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*43*	*30-120*	
Nitrobenzene-d5 (SUR)	*45*	*27-125*	
p-Terphenyl (SUR)	*43*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 11:35	**Site:**			
Sample #:	**424016-008**	**Client Sample #:**	02-SP-08	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213800		
TPH (C6 to C12)	ND	1	3	mg/Kg		01/22/20	EW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*					
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1213881		
TPH (C13 to C28) (SGT)	ND	1	10	mg/Kg		01/27/20	TW	
TPH (C29 to C 40) (SGT)	ND	1	20	mg/Kg		01/27/20	TW	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*78*		*50-150*					
Method: EPA 8260B *NELAC* Prep Method: EPA 5030						QCBatchID: QC1213785		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		01/22/20	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		01/22/20	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		01/22/20	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		01/22/20	LZ	
Acetone	ND	1	100	ug/Kg		01/22/20	LZ	
Allyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Benzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Bromochloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Bromoform	ND	1	5	ug/Kg		01/22/20	LZ	
Bromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorobenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroethane	ND	1	5	ug/Kg		01/22/20	LZ	
Chloroform	ND	1	5	ug/Kg		01/22/20	LZ	
Chloromethane	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020 11:35	**Site:**			
Sample #:	**424016-008**	**Client Sample #:**	02-SP-08	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dibromomethane	ND	1	5	ug/Kg		01/22/20	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Ethylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		01/22/20	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
m and p-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Methylene chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		01/22/20	LZ	
Naphthalene	ND	1	5	ug/Kg		01/22/20	LZ	
N-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
N-propylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
o-Xylene	ND	1	5	ug/Kg		01/22/20	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Styrene	ND	1	5	ug/Kg		01/22/20	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		01/22/20	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Toluene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		01/22/20	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichloroethene	ND	1	5	ug/Kg		01/22/20	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		01/22/20	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		01/22/20	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		01/22/20	LZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*100*	*66.7-166.6*	
4-Bromofluorobenzene (SUR)	*98*	*70-145*	
Dibromofluoromethane (SUR)	*97*	*70-145*	
Toluene-d8 (SUR)	*99*	*70-145*	

Method: EPA 8270CM Prep Method: EPA 3545 QCBatchID: QC1213896

1-Methylnaphthalene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
2-Methylnaphthalene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Acenaphthene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Acenaphthylene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Anthracene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Benz(a)anthracene	**53**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Benzo(a)pyrene	**47**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Benzo(b)fluoranthene	**33**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Benzo(g,h,i)perylene	**16**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Benzo(k)fluoranthene	**42**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Chrysene	**53**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Dibenz(a,h)anthracene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Fluoranthene	**81**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Fluorene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Indeno(1,2,3-cd)pyrene	**20**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Naphthalene	ND	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Phenanthrene	**27**	1	10	ug/Kg	01/24/20	01/30/20	CBR	
Pyrene	**83**	1	10	ug/Kg	01/24/20	01/30/20	CBR	

Surrogate	*% Recovery*	*Limits*	*Notes*
2-Fluorobiphenyl (SUR)	*58*	*30-120*	
Nitrobenzene-d5 (SUR)	*60*	*27-125*	
p-Terphenyl (SUR)	*67*	*33-155*	

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020	**Site:**			
Sample #:	**424016-009**	**Client Sample #:**	4-pt comp 02-SP-01, 02, 03, 04	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1213861		
Antimony	ND	1	3	mg/Kg		01/24/20	SBW	
Arsenic	**2.16**	1	1	mg/Kg		01/24/20	SBW	
Barium	**93.3**	1	1	mg/Kg		01/24/20	SBW	
Beryllium	ND	1	0.5	mg/Kg		01/24/20	SBW	
Cadmium	ND	1	0.5	mg/Kg		01/24/20	SBW	
Chromium	**14.2**	1	1	mg/Kg		01/24/20	SBW	
Cobalt	**7.59**	1	0.5	mg/Kg		01/24/20	SBW	
Copper	**15.2**	1	1	mg/Kg		01/24/20	SBW	
Lead	**9.77**	1	1	mg/Kg		01/24/20	SBW	
Molybdenum	ND	1	1	mg/Kg		01/24/20	SBW	
Nickel	**12.1**	1	1.5	mg/Kg		01/27/20	SBW	
Selenium	ND	1	3	mg/Kg		01/24/20	SBW	
Silver	ND	1	0.5	mg/Kg		01/24/20	SBW	
Thallium	ND	1	3	mg/Kg		01/24/20	SBW	
Vanadium	**34.0**	1	0.5	mg/Kg		01/24/20	SBW	
Zinc	**52.3**	1	5	mg/Kg		01/24/20	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1213864		
Mercury	ND	1	0.14	mg/Kg	01/23/20	01/24/20		
Method: EPA 8081A NELAC Prep Method: EPA 3546						QCBatchID: QC1213818		
4,4'-DDD	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
4,4'-DDE	**12**	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
4,4'-DDT	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
a-BHC	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Aldrin	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
b-BHC	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Chlordane (technical)	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
d-BHC	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Dieldrin	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Endosulfan I	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Endosulfan II	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Endosulfan sulfate	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Endrin	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Endrin aldehyde	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Endrin Ketone	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Heptachlor	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Heptachlor epoxide	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Lindane (Gamma-BHC)	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Methoxychlor	ND	2	20	ug/Kg	01/22/20	01/28/20	CBR	D2
Toxaphene	ND	2	200	ug/Kg	01/22/20	01/28/20	CBR	D2

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*54*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*63*	*50-150*	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1213819		
PCB-1016	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1221	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1232	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1242	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1248	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1254	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1260	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1262	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1268	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020	**Site:**			
Sample #:	**424016-009**	**Client Sample #:**	4-pt comp 02-SP-01, 02, 03, 04	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*63*		*50-150*					

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020	**Site:**			
Sample #:	**424016-010**	**Client Sample #:**	4-pt comp 02-SP-05, 06, 07, 08	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID: QC1213861		
Antimony	ND	1	3	mg/Kg		01/24/20	SBW	
Arsenic	**5.90**	1	1	mg/Kg		01/24/20	SBW	
Barium	**73.7**	1	1	mg/Kg		01/24/20	SBW	
Beryllium	ND	1	0.5	mg/Kg		01/24/20	SBW	
Cadmium	**0.63**	1	0.5	mg/Kg		01/24/20	SBW	
Chromium	**18.4**	1	1	mg/Kg		01/24/20	SBW	
Cobalt	**10.5**	1	0.5	mg/Kg		01/24/20	SBW	
Copper	**22.9**	1	1	mg/Kg		01/24/20	SBW	
Lead	**19.4**	1	1	mg/Kg		01/24/20	SBW	
Molybdenum	ND	1	1	mg/Kg		01/24/20	SBW	
Nickel	**16.0**	1	1.5	mg/Kg		01/27/20	SBW	
Selenium	ND	1	3	mg/Kg		01/24/20	SBW	
Silver	ND	1	0.5	mg/Kg		01/24/20	SBW	
Thallium	ND	1	3	mg/Kg		01/24/20	SBW	
Vanadium	**42.4**	1	0.5	mg/Kg		01/24/20	SBW	
Zinc	**75.9**	1	5	mg/Kg		01/24/20	SBW	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A						QCBatchID: QC1213864		
Mercury	ND	1	0.14	mg/Kg	01/23/20	01/24/20		
Method: EPA 8081A *NELAC* Prep Method: EPA 3546						QCBatchID: QC1213818		
4,4'-DDD	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
4,4'-DDE	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
4,4'-DDT	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
a-BHC	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Aldrin	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
b-BHC	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Chlordane (technical)	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
d-BHC	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Dieldrin	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Endosulfan I	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Endosulfan II	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Endosulfan sulfate	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Endrin	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Endrin aldehyde	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Endrin Ketone	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Heptachlor	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Heptachlor epoxide	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Lindane (Gamma-BHC)	ND	2	10	ug/Kg	01/22/20	01/28/20	CBR	D2
Methoxychlor	ND	2	20	ug/Kg	01/22/20	01/28/20	CBR	D2
Toxaphene	ND	2	200	ug/Kg	01/22/20	01/28/20	CBR	D2

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*62*	*24.4-119.9*	
Tetrachloro-m-xylene TCMX (SUR)	*72*	*50-150*	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8082 *NELAC* Prep Method: EPA 3545						QCBatchID: QC1213819		
PCB-1016	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1221	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1232	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1242	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1248	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1254	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1260	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1262	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2
PCB-1268	ND	2	100	ug/Kg	01/22/20	01/28/20	CBR	D2

Matrix:	Solid	**Client:**	ENGEO Inc.	**Collector:**	Client
Sampled:	01/21/2020	**Site:**			
Sample #:	**424016-010**	**Client Sample #:**	4-pt comp 02-SP-05, 06, 07, 08	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*72*		*50-150*					

QCBatchID: QC1213785	**Analyst:** Rlee		**Method:** EPA 8260B		
Matrix: Solid	**Analyzed:** 01/22/2020		**Instrument:** VOA-MS (group)		

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213785MB1					
1,1,1,2-Tetrachloroethane	ND	ug/Kg		5	
1,1,1-Trichloroethane	ND	ug/Kg		5	
1,1,2,2-Tetrachloroethane	ND	ug/Kg		5	
1,1,2-Trichloroethane	ND	ug/Kg		5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		5	
1,1-Dichloroethane	ND	ug/Kg		5	
1,1-Dichloroethene	ND	ug/Kg		5	
1,1-Dichloropropene	ND	ug/Kg		5	
1,2,3-Trichlorobenzene	ND	ug/Kg		5	
1,2,3-Trichloropropane	ND	ug/Kg		5	
1,2,4-Trichlorobenzene	ND	ug/Kg		5	
1,2,4-Trimethylbenzene	ND	ug/Kg		5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg		5	
1,2-Dibromoethane	ND	ug/Kg		5	
1,2-Dichlorobenzene	ND	ug/Kg		5	
1,2-Dichloroethane	ND	ug/Kg		5	
1,2-Dichloropropane	ND	ug/Kg		5	
1,3,5-Trimethylbenzene	ND	ug/Kg		5	
1,3-Dichlorobenzene	ND	ug/Kg		5	
1,3-Dichloropropane	ND	ug/Kg		5	
1,4-Dichlorobenzene	ND	ug/Kg		5	
2,2-Dichloropropane	ND	ug/Kg		5	
2-Butanone (MEK)	ND	ug/Kg		100	
2-Chloroethyl Vinyl Ether	ND	ug/Kg		5	
2-Chlorotoluene	ND	ug/Kg		5	
4-Chlorotoluene	ND	ug/Kg		5	
4-Isopropyltoluene	ND	ug/Kg		5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		5	
Acetone	ND	ug/Kg		100	
Allyl Chloride	ND	ug/Kg		5	
Benzene	ND	ug/Kg		5	
Bromobenzene	ND	ug/Kg		5	
Bromochloromethane	ND	ug/Kg		5	
Bromodichloromethane	ND	ug/Kg		5	
Bromoform	ND	ug/Kg		5	
Bromomethane	ND	ug/Kg		5	
Carbon Tetrachloride	ND	ug/Kg		5	
Chlorobenzene	ND	ug/Kg		5	
Chlorodibromomethane	ND	ug/Kg		5	
Chloroethane	ND	ug/Kg		5	
Chloroform	ND	ug/Kg		5	
Chloromethane	ND	ug/Kg		5	
cis-1,2-Dichloroethene	ND	ug/Kg		5	
cis-1,3-dichloropropene	ND	ug/Kg		5	
cis-1,4-dichloro-2-butene	ND	ug/Kg		5	
Dibromomethane	ND	ug/Kg		5	
Dichlorodifluoromethane	ND	ug/Kg		5	
Di-isopropyl ether (DIPE)	ND	ug/Kg		5	
Ethylbenzene	ND	ug/Kg		5	
Ethyl-tertbutylether (ETBE)	ND	ug/Kg		5	
Hexachlorobutadiene	ND	ug/Kg		5	
Isopropylbenzene	ND	ug/Kg		5	

QCBatchID: QC1213785 **Analyst:** Rlee **Method:** EPA 8260B

Matrix: Solid **Analyzed:** 01/22/2020 **Instrument:** VOA-MS (group)

Analyte	Blank Result	Units		RDL	Notes
QC1213785MB1					
m and p-Xylene	ND	ug/Kg		5	
Methylene chloride	ND	ug/Kg		5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg		5	
Naphthalene	ND	ug/Kg		5	
N-butylbenzene	ND	ug/Kg		5	
N-propylbenzene	ND	ug/Kg		5	
o-Xylene	ND	ug/Kg		5	
Sec-butylbenzene	ND	ug/Kg		5	
Styrene	ND	ug/Kg		5	
t-Butyl alcohol (TBA)	ND	ug/Kg		10	
Tert-amylmethylether (TAME)	ND	ug/Kg		5	
Tert-butylbenzene	ND	ug/Kg		5	
Tetrachloroethene	ND	ug/Kg		5	
Toluene	ND	ug/Kg		5	
trans-1,2-dichloroethene	ND	ug/Kg		5	
trans-1,3-dichloropropene	ND	ug/Kg		5	
trans-1,4-dichloro-2-butene	ND	ug/Kg		5	
Trichloroethene	ND	ug/Kg		5	
Trichlorofluoromethane	ND	ug/Kg		5	
Vinyl Chloride	ND	ug/Kg		5	
Xylenes (Total)	ND	ug/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213785LCS1											
1,1-Dichloroethene	50		49		ug/Kg	98			59-172		
Benzene	50		58		ug/Kg	116			62-137		
Chlorobenzene	50		54		ug/Kg	108			60-133		
Methyl-t-butyl Ether (MTBE)	50		34		ug/Kg	68			62-137		
Toluene	50		56		ug/Kg	112			59-139		
Trichloroethene	50		55		ug/Kg	110			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213785MS1, QC1213785MSD1												**Source: 424016-001**
1,1-Dichloroethene	ND	50	50	48	46	ug/Kg	96	92	4.3	59-172	22	
Benzene	ND	50	50	56	54	ug/Kg	112	108	3.6	62-137	24	
Chlorobenzene	ND	50	50	49	48	ug/Kg	98	96	2.1	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	33	33	ug/Kg	66	66	0.0	62-137	21	
Toluene	ND	50	50	54	52	ug/Kg	108	104	3.8	59-139	21	
Trichloroethene	ND	50	50	56	54	ug/Kg	112	108	3.6	66-142	21	

QCBatchID:	**QC1213800**	**Analyst:**	sandyw	**Method:**	EPA 8015B
Matrix:	Solid	**Analyzed:**	01/22/2020	**Instrument:**	VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1213800MB1						
TPH (C6 to C12)	ND	mg/Kg		3		
TPH Gasoline	ND	mg/Kg		3		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213800LCS1											
TPH Gasoline	5		5.4		mg/Kg	108			70-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213800MS1, QC1213800MSD1												**Source: 424016-002**
TPH Gasoline	ND	5	5	4.9	4.9	mg/Kg	98	98	0.0	70-130	20	

QCBatchID: QC1213818	**Analyst:** bmorris	**Method:** EPA 8081A	
Matrix: Solid	**Analyzed:** 01/22/2020	**Instrument:** SVOA-GC (group)	

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213818MB1					
4,4'-DDD	ND	ug/Kg		5	
4,4'-DDE	ND	ug/Kg		5	
4,4'-DDT	ND	ug/Kg		5	
a-BHC	ND	ug/Kg		5	
Aldrin	ND	ug/Kg		5	
b-BHC	ND	ug/Kg		5	
Chlordane (technical)	ND	ug/Kg		50	
d-BHC	ND	ug/Kg		5	
Dieldrin	ND	ug/Kg		5	
Endosulfan I	ND	ug/Kg		5	
Endosulfan II	ND	ug/Kg		5	
Endosulfan sulfate	ND	ug/Kg		5	
Endrin	ND	ug/Kg		5	
Endrin aldehyde	ND	ug/Kg		5	
Endrin Ketone	ND	ug/Kg		5	
Heptachlor	ND	ug/Kg		5	
Heptachlor epoxide	ND	ug/Kg		5	
Lindane (Gamma-BHC)	ND	ug/Kg		5	
Methoxychlor	ND	ug/Kg		10	
Toxaphene	ND	ug/Kg		100	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213818LCS1											
4,4'-DDD	50		43		ug/Kg	86			43-172		
4,4'-DDE	50		40		ug/Kg	80			44-163		
4,4'-DDT	50		34		ug/Kg	68			40-158		
a-BHC	50		42		ug/Kg	84			45-150		
Aldrin	50		37		ug/Kg	74			46-142		
b-BHC	50		41		ug/Kg	82			42-156		
d-BHC	50		44		ug/Kg	88			37-161		
Dieldrin	50		39		ug/Kg	78			47-151		
Endosulfan I	50		40		ug/Kg	80			47-141		
Endosulfan II	50		40		ug/Kg	80			44-156		
Endosulfan sulfate	50		40		ug/Kg	80			43-157		
Endrin	50		42		ug/Kg	84			47-160		
Endrin aldehyde	50		28		ug/Kg	56			32-127		
Endrin Ketone	50		40		ug/Kg	80			48-159		
Heptachlor	50		40		ug/Kg	80			50-144		
Heptachlor epoxide	50		39		ug/Kg	78			48-145		
Lindane (Gamma-BHC)	50		43		ug/Kg	86			47-151		
Methoxychlor	50		40		ug/Kg	80			36-182		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213818MS1, QC1213818MSD1												**Source: 423857-003**
4,4'-DDD	ND	50	50	35	39	ug/Kg	70	78	10.8	43-172	20	
4,4'-DDE	9.3	50	50	38	42	ug/Kg	57	65	10.0	44-163	20	
4,4'-DDT	ND	50	50	33	36	ug/Kg	66	72	8.7	40-158	20	
a-BHC	ND	50	50	36	39	ug/Kg	72	78	8.0	45-150	20	

QCBatchID: QC1213818 **Analyst:** bmorris **Method:** EPA 8081A

Matrix: Solid **Analyzed:** 01/22/2020 **Instrument:** SVOA-GC (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213818MS1, QC1213818MSD1												**Source: 423857-003**
Aldrin	ND	50	50	33	35	ug/Kg	66	70	5.9	46-142	20	
b-BHC	ND	50	50	35	39	ug/Kg	70	78	10.8	42-156	20	
d-BHC	ND	50	50	37	42	ug/Kg	74	84	12.7	37-161	20	
Dieldrin	ND	50	50	33	36	ug/Kg	66	72	8.7	47-151	20	
Endosulfan I	ND	50	50	34	37	ug/Kg	68	74	8.5	47-141	20	
Endosulfan II	ND	50	50	34	38	ug/Kg	68	76	11.1	44-156	20	
Endosulfan sulfate	ND	50	50	34	37	ug/Kg	68	74	8.5	43-157	20	
Endrin	ND	50	50	35	38	ug/Kg	70	76	8.2	47-160	20	
Endrin aldehyde	ND	50	50	27	30	ug/Kg	54	60	10.5	32-127	20	
Endrin Ketone	ND	50	50	33	36	ug/Kg	66	72	8.7	48-159	20	
Heptachlor	ND	50	50	34	36	ug/Kg	68	72	5.7	50-144	20	
Heptachlor epoxide	ND	50	50	32	35	ug/Kg	64	70	9.0	48-145	20	
Lindane (Gamma-BHC)	ND	50	50	36	40	ug/Kg	72	80	10.5	47-151	20	
Methoxychlor	ND	50	50	34	39	ug/Kg	68	78	13.7	36-182	20	

QCBatchID:	**QC1213819**	**Analyst:**	bmorris	**Method:**	EPA 8082
Matrix:	Solid	**Analyzed:**	01/22/2020	**Instrument:**	SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213819MB1					
PCB-1016	ND	ug/Kg		50	
PCB-1221	ND	ug/Kg		50	
PCB-1232	ND	ug/Kg		50	
PCB-1242	ND	ug/Kg		50	
PCB-1248	ND	ug/Kg		50	
PCB-1254	ND	ug/Kg		50	
PCB-1260	ND	ug/Kg		50	
PCB-1262	ND	ug/Kg		50	
PCB-1268	ND	ug/Kg		50	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213819LCS1											
PCB-1016	500		460		ug/Kg	92			70-130		
PCB-1260	500		440		ug/Kg	88			70-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213819MS1, QC1213819MSD1												**Source: 423857-003**
PCB-1016	ND	500	500	500	490	ug/Kg	100	98	2.0	70-130	20	
PCB-1260	ND	500	500	420	430	ug/Kg	84	86	2.4	70-130	20	

QCBatchID: QC1213861 **Analyst:** rvenegas **Method:** EPA 6010B

Matrix: Solid **Analyzed:** 01/23/2020 **Instrument:** AAICP (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213861MB1					
Antimony	ND	mg/Kg		3	
Arsenic	ND	mg/Kg		1	
Barium	ND	mg/Kg		1	
Beryllium	ND	mg/Kg		0.5	
Cadmium	ND	mg/Kg		0.5	
Chromium	ND	mg/Kg		1	
Cobalt	ND	mg/Kg		0.5	
Copper	ND	mg/Kg		1	
Lead	ND	mg/Kg		1	
Molybdenum	ND	mg/Kg		1	
Nickel	ND	mg/Kg		1.5	
Selenium	ND	mg/Kg		3	
Silver	ND	mg/Kg		0.5	
Thallium	ND	mg/Kg		3	
Vanadium	ND	mg/Kg		0.5	
Zinc	ND	mg/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213861LCS1											
Antimony	100		97.8		mg/Kg	98			80-120		
Arsenic	100		93.8		mg/Kg	94			80-120		
Barium	100		106		mg/Kg	106			80-120		
Beryllium	100		92.7		mg/Kg	93			80-120		
Cadmium	100		103		mg/Kg	103			80-120		
Chromium	100		97.2		mg/Kg	97			80-120		
Cobalt	100		102		mg/Kg	102			80-120		
Copper	100		99.4		mg/Kg	99			80-120		
Lead	100		105		mg/Kg	105			80-120		
Molybdenum	100		104		mg/Kg	104			80-120		
Nickel	100		104		mg/Kg	104			80-120		
Selenium	100		92.3		mg/Kg	92			80-120		
Silver	100		98.6		mg/Kg	99			80-120		
Thallium	100		96.9		mg/Kg	97			80-120		
Vanadium	100		110		mg/Kg	110			80-120		
Zinc	100		101		mg/Kg	101			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213861MS1, QC1213861MSD1												**Source: 423978-005**
Antimony	0.56	100	100	32.0	43.6	mg/Kg	31	43	30.7	75-125	20	M,D
Arsenic	14.3	100	100	87.8	102	mg/Kg	74	88	15.0	75-125	20	M
Barium	165	100	100	227	238	mg/Kg	62	73	4.7	75-125	20	M
Beryllium	ND	100	100	79.5	89.9	mg/Kg	80	90	12.3	75-125	20	
Cadmium	2.27	100	100	79.5	91.9	mg/Kg	77	90	14.5	75-125	20	
Chromium	42.4	100	100	119	131	mg/Kg	77	89	9.6	75-125	20	
Cobalt	13.5	100	100	90.0	100	mg/Kg	77	87	10.5	75-125	20	
Copper	30.0	100	100	109	120	mg/Kg	79	90	9.6	75-125	20	
Lead	7.88	100	100	88.2	102	mg/Kg	80	94	14.5	75-125	20	
Molybdenum	2.12	100	100	78.3	93.9	mg/Kg	76	92	18.1	75-125	20	

QCBatchID: QC1213861	**Analyst:** rvenegas	**Method:** EPA 6010B			
Matrix: Solid	**Analyzed:** 01/23/2020	**Instrument:** AAICP (group)			

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213861MS1, QC1213861MSD1												**Source: 423978-005**
Nickel	37.1	100	100	128	129	mg/Kg	91	92	0.8	75-125	20	
Selenium	ND	100	100	69.6	82.1	mg/Kg	70	82	16.5	75-125	20	M
Silver	ND	100	100	75.7	86.1	mg/Kg	76	86	12.9	75-125	20	
Thallium	1.40	100	100	71.4	86.1	mg/Kg	70	85	18.7	75-125	20	M
Vanadium	89.6	100	100	172	191	mg/Kg	82	101	10.5	75-125	20	
Zinc	71.0	100	100	144	153	mg/Kg	73	82	6.1	75-125	20	M

QCBatchID:	**QC1213864**	**Analyst:**	jbarrios	**Method:**	EPA 7471A
Matrix:	Solid	**Analyzed:**	01/23/2020	**Instrument:**	AAICP-HG1

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213864MB1					
Mercury	ND	mg/Kg		0.14	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1213864LCS1											
Mercury	0.83		0.77		mg/Kg	93			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1213864MS1, QC1213864MSD1												**Source: 424016-009**
Mercury	ND	0.83	0.83	0.79	0.89	mg/Kg	95	107	11.9	75-125	20	

QCBatchID: QC1213881	**Analyst:** TWu		**Method:** EPA 8015M		
Matrix: Solid	**Analyzed:** 01/24/2020		**Instrument:** SVOA-GC (group)		

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213881MB1					
TPH (C10 to C28) (SGT)	ND	mg/Kg		10	
TPH (C13 to C28) (SGT)	ND	mg/Kg		10	
TPH (C29 to C 40) (SGT)	ND	mg/Kg		20	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1213881LCS1											
TPH (C10 to C28) (SGT)	250		188		mg/Kg	75			36-138		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1213881MS1, QC1213881MSD1												**Source: 424016-001**
TPH (C10 to C28) (SGT)	11.9	250	250	199	185	mg/Kg	75	69	7.3	70-130	30	M

QCBatchID: QC1213896 **Analyst:** bmorris **Method:** EPA 8270CM

Matrix: Solid **Analyzed:** 01/24/2020 **Instrument:** SVOA-MS (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1213896MB1					
1-Methylnaphthalene	ND	ug/Kg		10	
2-Methylnaphthalene	ND	ug/Kg		10	
Acenaphthene	ND	ug/Kg		10	
Acenaphthylene	ND	ug/Kg		10	
Anthracene	ND	ug/Kg		10	
Benz(a)anthracene	ND	ug/Kg		10	
Benzo(a)pyrene	ND	ug/Kg		10	
Benzo(b)fluoranthene	ND	ug/Kg		10	
Benzo(g,h,i)perylene	ND	ug/Kg		10	
Benzo(k)fluoranthene	ND	ug/Kg		10	
Chrysene	ND	ug/Kg		10	
Dibenz(a,h)anthracene	ND	ug/Kg		10	
Fluoranthene	ND	ug/Kg		10	
Fluorene	ND	ug/Kg		10	
Indeno(1,2,3-cd)pyrene	ND	ug/Kg		10	
Naphthalene	ND	ug/Kg		10	
Phenanthrene	ND	ug/Kg		10	
Pyrene	ND	ug/Kg		10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213896LCS1											
1-Methylnaphthalene	50		21		ug/Kg	42			28-130		
2-Methylnaphthalene	50		24		ug/Kg	48			33-130		
Acenaphthene	50		29		ug/Kg	58			32-130		
Acenaphthylene	50		19		ug/Kg	38			28-130		
Anthracene	50		21		ug/Kg	42			34-130		
Benz(a)anthracene	50		24		ug/Kg	48			30-132		
Benzo(a)pyrene	50		13		ug/Kg	26			10-138		
Benzo(b)fluoranthene	50		20		ug/Kg	40			32-137		
Benzo(g,h,i)perylene	50		19		ug/Kg	38			27-130		
Benzo(k)fluoranthene	50		21		ug/Kg	42			32-130		
Chrysene	50		23		ug/Kg	46			29-130		
Dibenz(a,h)anthracene	50		23		ug/Kg	46			32-130		
Fluoranthene	50		21		ug/Kg	42			34-130		
Fluorene	50		21		ug/Kg	42			35-130		
Indeno(1,2,3-cd)pyrene	50		19		ug/Kg	38			34-132		
Naphthalene	50		25		ug/Kg	50			25-130		
Phenanthrene	50		25		ug/Kg	50			35-130		
Pyrene	50		21		ug/Kg	42			35-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213896MS1, QC1213896MSD1												**Source: 423911-001**
1-Methylnaphthalene	ND	50	50	37	50	ug/Kg	74	100	29.9	25-130	35	
2-Methylnaphthalene	ND	50	50	42	55	ug/Kg	84	110	26.8	32-133	35	
Acenaphthene	1.9	50	50	35	46	ug/Kg	66	88	27.2	28-134	35	
Acenaphthylene	ND	50	50	38	51	ug/Kg	76	102	29.2	14-157	35	
Anthracene	ND	50	50	33	39	ug/Kg	66	78	16.7	24-156	35	
Benz(a)anthracene	ND	50	50	40	39	ug/Kg	80	78	2.5	26-174	35	

QCBatchID: QC1213896 **Analyst:** bmorris **Method:** EPA 8270CM

Matrix: Solid **Analyzed:** 01/24/2020 **Instrument:** SVOA-MS (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1213896MS1, QC1213896MSD1												**Source: 423911-001**
Benzo(a)pyrene	ND	50	50	39	36	ug/Kg	78	72	8.0	18-173	35	
Benzo(b)fluoranthene	ND	50	50	38	37	ug/Kg	76	74	2.7	36-164	35	
Benzo(g,h,i)perylene	ND	50	50	36	41	ug/Kg	72	82	13.0	36-130	35	
Benzo(k)fluoranthene	ND	50	50	42	40	ug/Kg	84	80	4.9	36-161	35	
Chrysene	ND	50	50	37	38	ug/Kg	74	76	2.7	40-139	35	
Dibenz(a,h)anthracene	ND	50	50	37	42	ug/Kg	74	84	12.7	38-132	35	
Fluoranthene	1.3	50	50	39	47	ug/Kg	75	91	18.6	28-160	35	
Fluorene	ND	50	50	36	49	ug/Kg	72	98	30.6	27-140	35	
Indeno(1,2,3-cd)pyrene	ND	50	50	40	44	ug/Kg	80	88	9.5	26-154	35	
Naphthalene	ND	50	50	37	50	ug/Kg	74	100	29.9	33-130	35	
Phenanthrene	1.9	50	50	39	41	ug/Kg	74	78	5.0	29-147	35	
Pyrene	1.3	50	50	37	44	ug/Kg	71	85	17.3	26-153	35	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL		Chain of Custody Record		Turn Around Time (Rush by advanced notice only)								
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No: 424016		Standard:	✓	4 Day:		3 Day:				
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 1 of 1		2 Day:		1 Day:		Same Day:				
Billing: Enthalpy Analytical		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other		Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other								
1 Park Plaza, Suite 1000												
Irvine, CA 92614												

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	ENGEO	Name:	Former La Puerta School
Report To:	Adrianna Lundberg	Number:	16664.000.000
Email:	alundberg@engeo.com	P.O. #:	
Address:	6 Morgan Suite 162	Address:	2475 Forbes Ave
	Irvine, CA		Claremont, CA
Phone:	949.579.2268	Global ID:	
Fax:		Sampled By:	Jennifer Knipper

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	8270C SIM - SVOCs	8015 M -TPH-diessel, gas, motor oil	8260 M -VOCs		8081 M - OCPs	7471A / 6010- CAM-17 Metals	8082 M -PCBs				Test Instructions / Comments
1	02-SP-01	01/21/20	1240	soil	1 / 2x6	-	✓	✓	✓								4-pt comp for PCBs, OCPS, CAM-17 metals
2	02-SP-02	01/21/20	1230	soil	1 / 2x6	-	✓	✓	✓								
3	02-SP-03	01/21/20	1220	soil	1 / 2x6	-	✓	✓	✓								
4	02-SP-04	01/21/20	1210	soil	1 / 2x6	-	✓	✓	✓								
5																	
6	02-SP-05	01/21/20	1145	soil	1 / 2x6	-	✓	✓	✓								4-pt comp for PCBs, OCPS, CAM-17 metals
7	02-SP-06	01/21/20	1155	soil	1 / 2x6	-	✓	✓	✓								
8	02-SP-07	01/21/20	1125	soil	1 / 2x6	-	✓	✓	✓								
9	02-SP-08	01/21/20	1135	soil	1 / 2x6	-	✓	✓	✓								
10																	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Jennifer Knipper	ENGEO / Staff Geologist	01/21/20 1340
[1] Received By:		FERNANDO DUM	ENA	1/21/20 1340
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

F4-154

silica gel cleanup

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: ENGEO Project: Former La Puerta School

Date Received: 01/21/20 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 5.9 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☐ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 4.7 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____ ☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 01/21/20

APPENDIX C

UCL Output for BaP in the Southwest Stockpile

	A	B	C	D	E	F	G	H	I	J	K	L
1	**UCL Statistics for Data Sets with Non-Detects**											
2												
3				User Selected Options								
4				Date/Time of Computation	ProUCL 5.12/4/2020 6:09:47 PM							
5				From File	WorkSheet.xls							
6				Full Precision	OFF							
7				Confidence Coefficient	95%							
8				Number of Bootstrap Operations	2000							
9												
10	**BaP**											
11												
12	**General Statistics**											
13					Total Number of Observations	24			Number of Distinct Observations	16		
14					Number of Detects	11			Number of Non-Detects	13		
15					Number of Distinct Detects	11			Number of Distinct Non-Detects	5		
16					Minimum Detect	0.0019			Minimum Non-Detect	9.0000E-4		
17					Maximum Detect	0.29			Maximum Non-Detect	0.018		
18					Variance Detects	0.00735			Percent Non-Detects	54.17%		
19					Mean Detects	0.0474			SD Detects	0.0857		
20					Median Detects	0.0056			CV Detects	1.81		
21					Skewness Detects	2.675			Kurtosis Detects	7.682		
22					Mean of Logged Detects	-4.471			SD of Logged Detects	1.824		
23												
24	**Normal GOF Test on Detects Only**											
25					Shapiro Wilk Test Statistic	0.602			**Shapiro Wilk GOF Test**			
26					5% Shapiro Wilk Critical Value	0.85			Detected Data Not Normal at 5% Significance Level			
27					Lilliefors Test Statistic	0.298			**Lilliefors GOF Test**			
28					5% Lilliefors Critical Value	0.251			Detected Data Not Normal at 5% Significance Level			
29	**Detected Data Not Normal at 5% Significance Level**											
30												
31	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
32					KM Mean	0.0225			KM Standard Error of Mean	0.0128		
33					KM SD	0.0599			95% KM (BCA) UCL	0.0448		
34					95% KM (t) UCL	0.0445			95% KM (Percentile Bootstrap) UCL	0.0467		
35					95% KM (z) UCL	0.0436			95% KM Bootstrap t UCL	0.0911		
36					90% KM Chebyshev UCL	0.061			95% KM Chebyshev UCL	0.0784		
37					97.5% KM Chebyshev UCL	0.103			99% KM Chebyshev UCL	0.15		
38												
39	**Gamma GOF Tests on Detected Observations Only**											
40					A-D Test Statistic	0.827			**Anderson-Darling GOF Test**			
41					5% A-D Critical Value	0.79			Detected Data Not Gamma Distributed at 5% Significance Level			
42					K-S Test Statistic	0.251			**Kolmogorov-Smirnov GOF**			
43					5% K-S Critical Value	0.271			Detected data appear Gamma Distributed at 5% Significance Level			
44	**Detected data follow Appr. Gamma Distribution at 5% Significance Level**											
45												
46	**Gamma Statistics on Detected Data Only**											
47					k hat (MLE)	0.454			k star (bias corrected MLE)	0.391		
48					Theta hat (MLE)	0.104			Theta star (bias corrected MLE)	0.121		
49					nu hat (MLE)	9.983			nu star (bias corrected)	8.593		
50					Mean (detects)	0.0474						
51												

52	**Gamma ROS Statistics using Imputed Non-Detects**											
53	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
54	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)											
55	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
56	This is especially true when the sample size is small.											
57	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
58					Minimum	0.0019				Mean	0.0271	
59					Maximum	0.29				Median	0.01	
60					SD	0.0597				CV	2.199	
61					k hat (MLE)	0.652				k star (bias corrected MLE)	0.598	
62					Theta hat (MLE)	0.0416				Theta star (bias corrected MLE)	0.0454	
63					nu hat (MLE)	31.29				nu star (bias corrected)	28.71	
64					Adjusted Level of Significance (β)	0.0392						
65					Approximate Chi Square Value (28.71, α)	17.48				Adjusted Chi Square Value (28.71, β)	16.87	
66					95% Gamma Approximate UCL (use when n>=50)	0.0446				95% Gamma Adjusted UCL (use when n<50)	0.0462	
67												
68	**Estimates of Gamma Parameters using KM Estimates**											
69					Mean (KM)	0.0225				SD (KM)	0.0599	
70					Variance (KM)	0.00359				SE of Mean (KM)	0.0128	
71					k hat (KM)	0.141				k star (KM)	0.151	
72					nu hat (KM)	6.772				nu star (KM)	7.259	
73					theta hat (KM)	0.159				theta star (KM)	0.149	
74					80% gamma percentile (KM)	0.0247				90% gamma percentile (KM)	0.0668	
75					95% gamma percentile (KM)	0.124				99% gamma percentile (KM)	0.288	
76												
77	**Gamma Kaplan-Meier (KM) Statistics**											
78					Approximate Chi Square Value (7.26, α)	2.314				Adjusted Chi Square Value (7.26, β)	2.122	
79					95% Gamma Approximate KM-UCL (use when n>=50)	0.0706				95% Gamma Adjusted KM-UCL (use when n<50)	0.077	
80												
81	**Lognormal GOF Test on Detected Observations Only**											
82					Shapiro Wilk Test Statistic	0.86				**Shapiro Wilk GOF Test**		
83					5% Shapiro Wilk Critical Value	0.85				Detected Data appear Lognormal at 5% Significance Level		
84					Lilliefors Test Statistic	0.229				**Lilliefors GOF Test**		
85					5% Lilliefors Critical Value	0.251				Detected Data appear Lognormal at 5% Significance Level		
86	**Detected Data appear Lognormal at 5% Significance Level**											
87												
88	**Lognormal ROS Statistics Using Imputed Non-Detects**											
89					Mean in Original Scale	0.0221				Mean in Log Scale	-6.373	
90					SD in Original Scale	0.0613				SD in Log Scale	2.37	
91					95% t UCL (assumes normality of ROS data)	0.0436				95% Percentile Bootstrap UCL	0.043	
92					95% BCA Bootstrap UCL	0.0573				95% Bootstrap t UCL	0.0865	
93					95% H-UCL (Log ROS)	0.292						
94												
95	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
96					KM Mean (logged)	-5.677				KM Geo Mean	0.00342	
97					KM SD (logged)	1.659				95% Critical H Value (KM-Log)	3.527	
98					KM Standard Error of Mean (logged)	0.365				95% H-UCL (KM -Log)	0.0459	
99					KM SD (logged)	1.659				95% Critical H Value (KM-Log)	3.527	
100					KM Standard Error of Mean (logged)	0.365						
101												

	A	B	C	D	E	F	G	H	I	J	K	L
102	**DL/2 Statistics**											
103	**DL/2 Normal**						**DL/2 Log-Transformed**					
104					Mean in Original Scale	0.0231				Mean in Log Scale		-5.514
105					SD in Original Scale	0.061				SD in Log Scale		1.701
106					95% t UCL (Assumes normality)	0.0444				95% H-Stat UCL		0.0613
107	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
108												
109	**Nonparametric Distribution Free UCL Statistics**											
110	**Detected Data appear Approximate Gamma Distributed at 5% Significance Level**											
111												
112	**Suggested UCL to Use**											
113	Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1)					0.077						
114												
115	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
116	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
117												
118	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
119	Recommendations are based upon data size, data distribution, and skewness.											
120	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
121	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
122												