
Appendix G

Project No.
3359.210.001

January 26, 2021
Revised January 27, 2021

Mr. Louis Parsons
West Coast Home Builders, Inc.
4021 Port Chicago Highway
Concord, CA 94520

Subject: Bridle Gate
Sand Creek Road and San Jose Ave.
Brentwood, California

PHASE II ENVIRONMENTAL SITE ASSESSMENT

- References:
1. ENGEO; Phase I Environmental Site Assessment; Bridle Gate; Brentwood, California; May 6, 2020.
 2. ENGEO; Geotechnical Exploration; Ellisondo Property; Brentwood, California; September 15, 1999.
 3. Isakson & Associates Inc.; Vesting Tentative Map Subdivision 8506; Bridle Gate; City of Brentwood; Contra Costa County; January 9, 2020.

Dear Mr. Parsons:

As requested, we are pleased to submit this phase II environmental site assessment (ESA) to assist with environmental due diligence services for the subject project in Brentwood, California (Property).¹ ENGEO's staff and consultants conducted a detailed analysis of the Property to determine whether hazardous materials are present at the site in quantities that are sufficient to cause adverse human health effects. As we will explain in further detail below, constituents observed in soils and soil vapors appeared in concentrations that are below applicable screening thresholds. Our analysis confirmed that existing conditions at the Property will not cause adverse human health effects. Furthermore, all construction at the Property will adhere to a detailed Soil Management Plan (SMP) that will provide protocols to mitigate unforeseen impacts that may be encountered during the construction process.

Finally, we reviewed comments from the public suggesting that closed oil and gas wells on the Property might result in potential subsidence affecting future structures. We have thoroughly evaluated potential geotechnical concerns and find no evidence of future soil stability issues associated with the abandoned well locations. The evidence supporting these conclusions are found in the Phase I ESA prepared for the Property, as well as the Final Environmental Impact Report for the Bridle Gate Project, which memorializes input ENGEO provided to the City on the Property's soil characteristics.

¹ The Property is located at Sand Creek Road and San Jose Avenue in Brentwood, California. The approximately 133.7-acre Property is identified as Assessor's Parcel Number (APN) 019 082-007. The Property consists of partially graded open space.

BACKGROUND

The purpose of this phase II ESA is to ensure that potential hazardous substances located at the Property are identified, analyzed, and (if necessary) mitigated. The phase II ESA was conducted in general accordance with ASTM E1903-97: *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*. Furthermore, the previous phase I ESA complies with the Environmental Protection Agency All Appropriate Inquiry regulations.

ENGEO began the process of evaluating conditions at the Project site with the phase I ESA (Reference 1), which was completed in May 2020. The phase I ESA ultimately identified several locations at the Property (known as "Recognized Environmental Conditions" or "RECs") that could potentially be a source for hazardous materials.

Specifically, the phase I ESA identified several potential RECs:

- Seven² oil-producing wells that operated at the Property between 1962 and 1966 (Figure 2);³
- An above-ground storage tank complex that was used to store separated oil, condensate, and water that was decommissioned in 1996 (Figure 2); and
- The former Brentwood crude oil pipeline, which also operated within the Property (Figure 2).⁴

Investigation under this phase II process determined that while potential residual impacts remain within the vicinity of the former oil wells, the former Brentwood crude oil pipeline, and the former tank farm, these residual impacts do not include contaminants that are present at levels that exceed screening thresholds. Due to (1) the relatively minute concentrations of residual contaminants at the Property and (2) the Property's unique soil conditions, the residual impacts do not pose a threat to human health or safety.

Please note that the seven wells on the Property were documented as abandoned in accordance with the applicable DOGGR requirements at that time. Certification of abandonment requires a DOGGR review of installation, production, and abandonment procedures documented for the well. This is followed by a physical field inspection by a DOGGR representative to confirm field conditions satisfy DOGGR abandonment protocols.

² Our Phase I ESA previously noted eight former production wells due to a discrepancy between RWQCB and CalGEM historic recordings for well 3-10. Two well locations were initially mapped for this well within approximately 100 feet of each other. We performed a geophysical survey to confirm the one location for well 3-10. There is a total of seven former production wells within the Property.

³ These wells were decommissioned and abandoned in accordance with the Department of Oil and Gas (now CalGEM) regulations. Records of abandonment were reviewed on the CalGEM website.

⁴ Remedial activities for the decommissioning of the well sites and tank farm included soil, excavation, bioremediation, soil sampling/analysis, and groundwater monitoring. Confirmation sampling and laboratory testing demonstrated successful remediation to the approved cleanup objectives set forth by Central Valley RWQCB. Closure letters for the Sullenger Tank Farm, Ward Tank Farm, and Wells 3 10, 34-10, 32-10, and 38-10 were issued in 1996 through 2000 by the Central Valley RWQCB. Confirmation samples obtained from the bioremediated soil stockpile had TPH concentrations up to 1,800 parts per million (ppm) which exceeds screening levels. We understand this soil was used as backfill for oil well remedial excavations.

SCOPE OF FIELD WORK

Our phase II ESA included sampling and laboratory analysis of soil and soil vapor. In November 2020, ENGEO representatives travelled to the Property to extract soil and soil vapor samples.⁵ The samples were then submitted to a State-certified laboratory for further testing and evaluation.⁶ The methods and procedures used in the phase I and phase II ESAs prepared for the Property are in general conformance with the nationally recognized standards, ASTM E1527-13 and ASTM E1903-19, along with Environmental Protection Agency All Appropriate Inquiry regulations.

Soil Assessment

Between November 2 and November 5, 2020, 94 soil samples were collected from the vicinity of the seven abandoned oil wells and the former tank farm. Samples were collected at two depths (5 and 10 feet) at five locations per well and twelve locations within the former tank farm area.⁷ We submitted the samples for laboratory analysis to test for the presence of the following chemical compounds:

- Total petroleum hydrocarbons as gasoline (TPH-g), BTEX, and MTBE (EPA Method 8260).
- Total petroleum hydrocarbons as diesel (TPH-d) and total petroleum hydrocarbons as motor oil (TPH-mo) (EPA Method 8015 with silica gel cleanup).

Soil Vapor Assessment

On November 2 through November 5, 2020, ENGEO collected soil vapor samples from sampling points that were installed at 10 locations (Figure 2). Samples were collected from probes that were installed at approximately 6 feet below the ground surface.⁸ Following collection, the soil

⁵ Prior to drilling, an ENGEO representative contacted USA North Service Alert to facilitate notification of operators of utilities at or near the Property. We retained a C-57 licensed direct push contractor to advance sample borings at the Property. Sample locations are shown on Figure 2. Following issuance of Contra Costa County Environmental Health drilling permits, drilling was performed on November 2 through November 5, 2020. Borings were backfilled with cement grout in accordance with drilling permits.

⁶ Upon collection of soil and soil vapor samples, a label was placed on each sample, including a unique sample number, sample location, time/date collected, laboratory analysis, and the sampler's identification. The samples were submitted under documented chain-of-custody to a Torrent Laboratory, Inc., a State certified laboratory located in Milpitas, California.

⁷ Samples were recovered within continuous Geoprobe® acetate core liners. Specific soil samples were collected for laboratory analysis by cutting 6-inch portions of the Geoprobe soil core liners; the samples were then transferred into 2-inch by 6-inch stainless steel liners. Following transfer, the sample liners were sealed using Teflon® sheets secured by tight-fitting plastic end caps and tape.

⁸ The soil vapor samples were collected from temporary probes advanced with a Geoprobe direct-push rig and constructed in general accordance with the Department of Toxic Substances Control Final Advisory Active Soil Gas Investigations (July 2015) and under permit from the Contra Costa County Environmental Health. The temporary soil vapor wells were constructed with ¼-inch-diameter Teflon tubing equipped with a filter at the base of the tubing. The temporary well installation consisted of an approximately 3 inch-diameter boring to a depth of 6 feet below the ground surface. For each location, the bottom of the well casing was equipped with a 1-inch-long filter situated at 6 feet below ground surface, centered in the middle of a 2-foot layer of No. 3 sand. The remaining annular space was filled with hydrated bentonite grout to 6 inches below grade.

vapor samples were submitted for laboratory analysis to test for the presence of the following chemical compounds:

- Volatile organic compounds (VOCs) and TPH-g (EPA Test Method TO-15)
- Fixed Gases (EPA Test Method D1946)

ANALYTICAL LABORATORY RESULTS

A summary of laboratory results is provided in the attached tables, and the laboratory reports are presented in their entirety in Appendix A.

Soil

Soil samples in four locations showed detectable constituents, but at concentrations below screening levels. The concentrations of TPH-d that were identified are below the San Francisco Bay Regional Water Quality Control Board's (RWQCB) established site-specific cleanup levels for the project and do not require further evaluation or mitigation. Complete results of our analysis are summarized in Tables A and B.⁹

Soil Vapor

The analyzed soil vapor samples reported detectable concentrations of several VOCs, including benzene, chloroform, ethylbenzene, and total xylenes. However, all of these compounds were detected below applicable residential vapor intrusion screening levels.¹⁰ Based on RWQCB

Once the installation of the annular seal was complete, the well casings were equipped with a permanent Swagelok ® ferrule and nut. The wells were inactive for a mandatory 2-hour equilibration time. After the 2-hour equilibration time elapsed, the sample train was connected to the well tubing by threading the permanent Swagelok ® fitting on the well casing onto the manifold. The sample train consisted of a stainless steel, twin summa quick-connect manifold with a built in flow controller set at 150 millimeters per minute (ml/min). A purge vacuum canister was attached to the manifold connection closest to the well casing, and the sample canister was connected to the manifold fitting furthest away from the well casing. Prior to sample recovery a minimum of three well volumes were purged from each temporary soil vapor well by opening the well to the purge vacuum canister. Once the appropriate volume was purged from a well, the purge canister was closed. Samples were then recovered by opening the valve to the vacuum sample canister. DFA was used as a leak check compound during sample recovery. DFA was applied to a rag and placed in close proximity to the manifold and well opening.

⁹ Low to non-detectable (ND) concentrations were reported for TPH-g in samples analyzed. TPH d and –mo were detected. Detected concentrations of TPH-g ranged from 0.101 milligrams per kilogram (mg/kg) to 177mg/kg, below Regional Water Quality Control Board's (RWQCB) residential Environmental Screening Levels (ESLs). (See San RWQCB Environmental Screening Levels, Table S-1, Direct Exposure, Shallow Soil, assuming a Residential Land Use Scenario, January 2019 (Rev.2).) TPH-d ranged from ND to 454 mg/kg. The following samples exhibited a concentration of TPH-d above the current residential ESLs: S-31-10-E@10', S-31-10-S@10', S-31-10-W@5', S-31-10-W@10', S TF-7@10', S-TF-11@5', S-TF-8@5', and S-TF-8@10' (please see discussion of screening levels and implications in the next section of this report). TPH-mo ranged from ND to 961 mg/kg. TPH-mo did not exhibited concentrations over applicable screening levels. MTBE and BTEX compounds were not detected in any samples analyzed. The reported concentrations are below the site-specific screening levels developed by the RWQCB.

¹⁰ Screening levels for chemicals in soil, groundwater, and soil gas are not intended to establish regulations or restrictions on land use nor to establish any mitigation or remediation requirements, and "the presence of a chemical at concentrations in excess of a screening does not necessarily indicate adverse effects on human health or the environment, rather that additional evaluation is warranted." (San Francisco Bay

policies that determine whether these types of chemicals pose a risk to health and safety, our analysis has confirmed that none of these detected chemicals pose a residential health risk, and the presence of these soil vapors would not require further study or mitigation.¹¹ Levels were so low that vapor barriers would not be necessary to install in habitable structures, as discussed further in the next section. As such, indoor and outdoor air are not significant concerns for the proposed residential, commercial, and/or school development. Furthermore, due to outdoor air circulation patterns that disperse constituents in outdoor settings to levels that are substantially lower than indoor settings, there are no expected human health risks at any outdoor locations at the Property.

SCREENING LEVELS

As a general principal, VOCs in soil gas become a concern when soil gas threatens human health by entering indoor air through vapor intrusion. It is important to examine the extent to which soil vapors become less concentrated as they rise to the surface. The screening levels for soil gas are therefore calculated based on a ratio of the acceptable indoor air concentration to the soil gas concentration. This ratio is referred to as an "attenuation factor."¹²

Regional Water Quality Control Board, User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), Interim Final 2019 (Revision 1) Water Board Environmental Screening Levels.) Health and Safety Code Section 57008(a)(3) of SB 32 states the following:

A screening number is solely an advisory number, and has no regulatory effect, and is published solely as a reference value that may be used by citizen groups, community organizations, property owners, developers, and local government officials to estimate the degree of effort that may be necessary to remediate a contaminated property. A screening number may not be construed as, and may not serve as, a level that can be used to require an agency to determine that no further action is required or a substitute for the cleanup level that is required to be achieved for a contaminant on a contaminated property.

¹¹ The analyzed soil vapor samples reported detectable concentrations of several VOCs, including benzene, chloroform, ethylbenzene, and total xylenes. Benzene was detected in sample SG-3 10, SG-TF1, SG-TF2, and SG-TF3 at concentrations of 3.8 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), 4.8 $\mu\text{g}/\text{m}^3$, 3.5 $\mu\text{g}/\text{m}^3$, and 5.1 $\mu\text{g}/\text{m}^3$, respectively. These concentrations are above the RWQCB residential screening level of 3.2 $\mu\text{g}/\text{m}^3$; however, it is below the recognized RWQCB low-threat closure policy concentration of 85 $\mu\text{g}/\text{m}^3$. Chloroform was detected in samples SG-3-10 and SG TF1 at concentrations of 4.3 $\mu\text{g}/\text{m}^3$ and 8.7 $\mu\text{g}/\text{m}^3$, respectively. These concentrations are above RWQCB residential screening level of 4.1 $\mu\text{g}/\text{m}^3$. Ethylbenzene was detected at 1,400 $\mu\text{g}/\text{m}^3$ for SG-39, above its residential screening level of 37 $\mu\text{g}/\text{m}^3$. Total xylenes was reported in one sample, SG-39 at a concentration of 6,100 $\mu\text{g}/\text{m}^3$, above RWQCB residential screening level of 3,500 $\mu\text{g}/\text{m}^3$.

¹² The indoor air screening levels for select VOCs are shown in Table 1A and Table 1B below and are the same for both the RWQCB and Department of Toxic Substances Control (DTSC). DTSC's most recent guidance related to site assessments for vapor intrusion concern (2011 Vapor Intrusion Guidance) recommends using default attenuation factors based on six different building scenarios, which can be applied for site-specific conditions. DTSC developed their default attenuation factors using the national empirical vapor intrusion database (U.S. EPA, 2008; U.S. EPA's Vapor Intrusion Database: Preliminary Evaluation of Attenuation Factors, March 4, 2008). Soil vapor and paired indoor air measurements, consisting of 311 samples at 13 sites, were reviewed. An attenuation factor of 0.05 (or 20), representing approximately the 90th percentile of the data, was selected as an appropriate attenuation factor for existing residential structures. For new residential construction, the DTSC attenuation factor is 0.001 (or 1,000). Prior to January 2019, the SFRWQCB used an attenuation factor of 0.002 (or 500). However, in January 2019, the SFRWQCB updated its environmental screening levels to use the U.S. EPA's generic attenuation factor of 0.03 (or 33). (See San Francisco Bay Regional Water Quality Control Board Update to

In April 2019, DTSC’s Human and Ecological Risk Office (HERO) released updated guidance for calculating the extent of attenuation that occurs when soil vapors travel to the surface. According to HERO’s guidelines, attenuation of measured soil gas concentrations should be calculated using two screening levels – one calculated based on the recommended attenuation factor for new residential construction of 0.001, and one calculated based on the U.S. EPA’s generic attenuation factor of 0.03.

TABLE 1A: Indoor Air Screening Levels

CHEMICAL	INDOOR AIR (residential) in $\mu\text{g}/\text{m}^3$		US EPA GENERIC ATTENUATION FACTOR
	SF REGIONAL BOARD	DTSC	
Benzene	0.096	0.096	3.2
Total Xylenes	105	--	3,500
Ethyl Benzene	1.11	--	37
Chloroform	0.123	--	4.1

TABLE 1B: Soil Gas Screening Levels

CHEMICAL	SUB-SLAB SOIL GAS (residential) in $\mu\text{g}/\text{m}^3$	
	SF REGIONAL BOARD	DTSC
Benzene	3.2	3.2
Total Xylenes	3,500	--
Ethyl Benzene	37	--
Chloroform	4.1	--

SITE-SPECIFIC ATTENUATION FACTORS

The screening levels used by the RWQCB and DTSC are based on generic factors that do not consider site-specific soil conditions. For example, if the soil at a site is more dense (less permeable) than the generic soil used, then it would be less likely that soil gas could travel through the soil and enter the indoor air above.

ENGEO has extensive knowledge of the geotechnical characteristics of the soil present at the Property. We performed geotechnical exploration of the subject Property and prepared geotechnical recommendations for grading and foundations for the Property (Reference 2). Soil throughout the Property typically consists of sandy to silty clay with some silty and clayey sand layers. These soil conditions will cause soil vapors to reach the surface in much smaller volumes compared to soil conditions at other locations.¹³

Environmental Screening Levels dated January 24, 2019.) This dramatically reduced the screening levels for numerous VOCs.

¹³ In order to predict the actual indoor air concentrations, we used the Johnson & Ettinger Model Spreadsheet, Version 6.0, developed by the US EPA and most recently revised in September 2017. The Johnson and Ettinger (J&E) Model (1991) calculates site-specific attenuation factors that are used to predict indoor air concentrations resulting from subsurface vapor migration into indoor air. The US EPA programmed the J&E model and added a health risk component in 1998 and provides updates as needed. We utilized the latest version, Version 6.0 updated in September 2017 for this assessment. The soil used in our model was the default silty clay option, which assumes several soil characteristics, most notably that the total porosity of the soil is 0.481. Porosity is defined as the ratio of the volume of voids to the total

Here, our analysis conservatively assumes that almost 48 percent of the soil under the new residential structures will be void space prior to the construction of new residences. However, during the construction process, soil beneath new residences will be compacted.¹⁴ Compaction of the soil reduces the void space significantly and typically results in a much lower porosity than the model assumes, thereby increasing the attenuation factor.

Our analysis confirmed that localized soil characteristics will cause volatile organic compound concentrations to be present in indoor air at less than 1/1000th the total concentration that was measured in our field samples. The results of the modeling are shown in Table 2.¹⁵

TABLE 2: Attenuation Factors

CONSTITUENT OF CONCERN	MAXIMUM DETECTED CONCENTRATION (µG/M ³)	SOURCE TO INDOOR AIR ATTENUATION FACTOR	INDOOR AIR CONCENTRATION DUE TO VAPOR INTRUSION (µG/M ³)	RWQCB INDOOR AIR SCREENING LEVEL (µG/M ³)	INCREMENTAL CANCER RISK FROM VAPOR INTRUSION
Chloroform	8.7	1,666(0.0006)	0.005	0.12	4.42E-08
Benzene	5.1	1428 (0.0007)	0.003	0.097	9.89E-09
Ethyl Benzene	1,400	1,666(0.0006)	0.79	1.1	7.04E-07
Total Xylenes	6,100	1,666(0.0006)	3.40	100	None

Based on the results of the modelling, the predicted indoor air levels for the constituents of concern are well below the RWQCB residential screening levels. In fact, predicted levels are estimated to be below screening levels by several orders of magnitude.

CONCLUSION

Based on this assessment and analytical results, the Property does not appear to have been significantly impacted due to past use. While our analysis indicates that soil around abandoned well S-31-10 (at 5 and 10 feet) and select locations in the former tank farm (S-TF-7, S-TF-8, and S-TF-11) have detected concentrations of TPH-d, no hazardous materials will be present in quantities sufficient to impact human health or safety. Further, soil gas testing has verified there

volume and indicates the relative amount of void space in the soil. The lower the porosity, the denser the soil.

Similarly, we used the default slab-on-grade foundation type. The default foundation type used by the model is a conservative approach, as it assumes a thickness of approximately 4 inches for the foundation slab. It also assumes a certain amount of the slab cracks. The actual foundation recommended may be thicker and have far less cracking than the default model parameters assumes. Slab on-grade structures use a 4-inch non-structural mat.

¹⁴ Our recommendations for the Property are to compact soil to a relative compaction of 85 to 90 percent at a moisture content of at least 4 percentage points above optimum for expansive material and 90 percent at a moisture content above optimum for non-expansive soil. Site soil is considered to have moderate to high potential shrink-swell behavior.

¹⁵ This model was used to confirm that the attenuation factor at the Property is greater than the generic attenuation factors assumed by both DTSC, US EPA, and the RWQCB. As seen below, the model predicted an attenuation factor and indoor air concentration for each of the VOCs that were detected above their applicable ESL using site-specific and default parameters shown on copies of model runs provided in Appendix B.

is no indoor air risk for future structures, or any outdoor air risk. In addition, a Soil Management Plan (SMP) has been prepared for the Property that will ensure risks are less-than-significant, in part by outlining procedures and protocols in the event that unidentified impacts are encountered during redevelopment.

Accordingly, construction crews will diligently monitor conditions on the ground to ensure strict compliance with all safety protocols, including the SMP.

From an environmental perspective, it is our opinion that residential and school site redevelopment is viable for the Property. With respect to the former wells and tank farms, significant impacts were not identified. If areas of minor impact are encountered based on past use, these areas will be handled with the proposed SMP during grading. A geotechnical professional should be present during any grading activities in these areas to comply with the SMP.

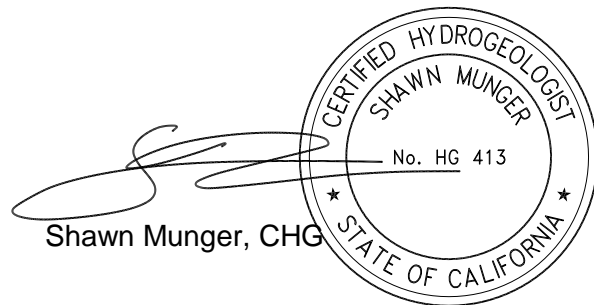
If you have any questions regarding this document, please do not hesitate to contact us.

Sincerely,

ENGEO Incorporated

Brooke Spruit
Brooke Spruit, PE

tw/bs/sm/cjn



Shawn Munger, CHG

Attachments: Figures 1 – 2H
Tables A and B
Appendix A – Torrent Laboratory, Inc., Laboratory Analysis Reports
Appendix B – Johnson & Ettinger Model Outputs
Appendix C – NorCal Geophysical Survey

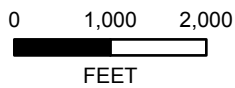
FIGURES

Figure 1: Vicinity Map

Figure 2: Site Plan

Figure 2A – 2H: Sample Locations

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BASEMAP SOURCE: ESRI MAPPING SERVICE 2017



VICINITY MAP
BRIDLE GATE
BRENTWOOD, CALIFORNIA

PROJECT NO. : 3359.210.001

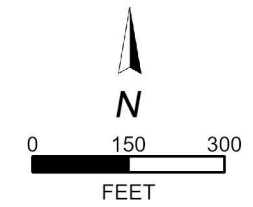
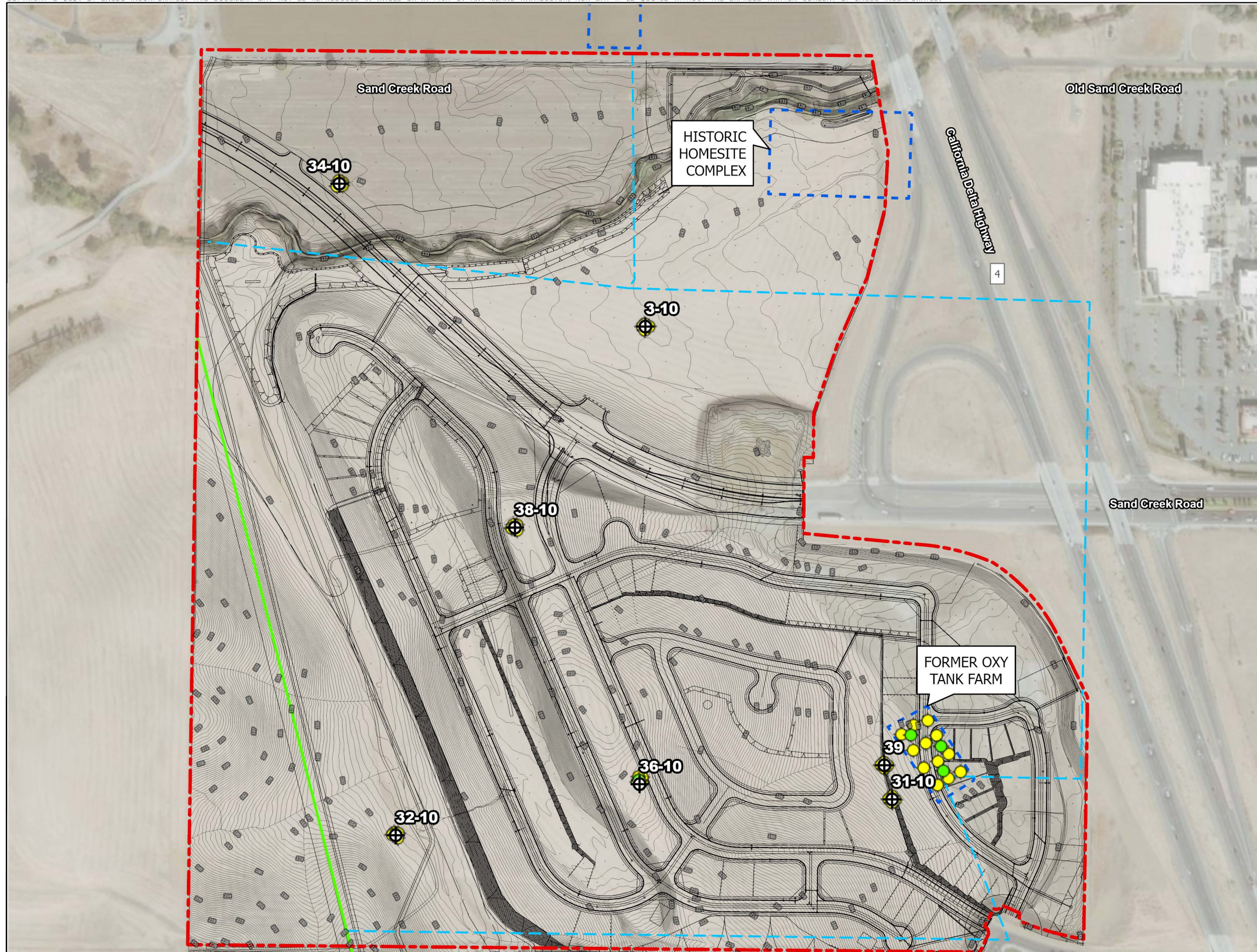
SCALE: AS SHOWN

DRAWN BY: JV

CHECKED BY: BES

FIGURE NO.

1



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- PG&E Underground Gas Pipeline
- - - Former Brentwood Crude Oil Pipeline
- Abandoned Wellhead (Isakson, 2019/2020)
- Soil Gas Samples (ENGEO, 2020)
- Soil Gas Samples (ENGEO, 2020)

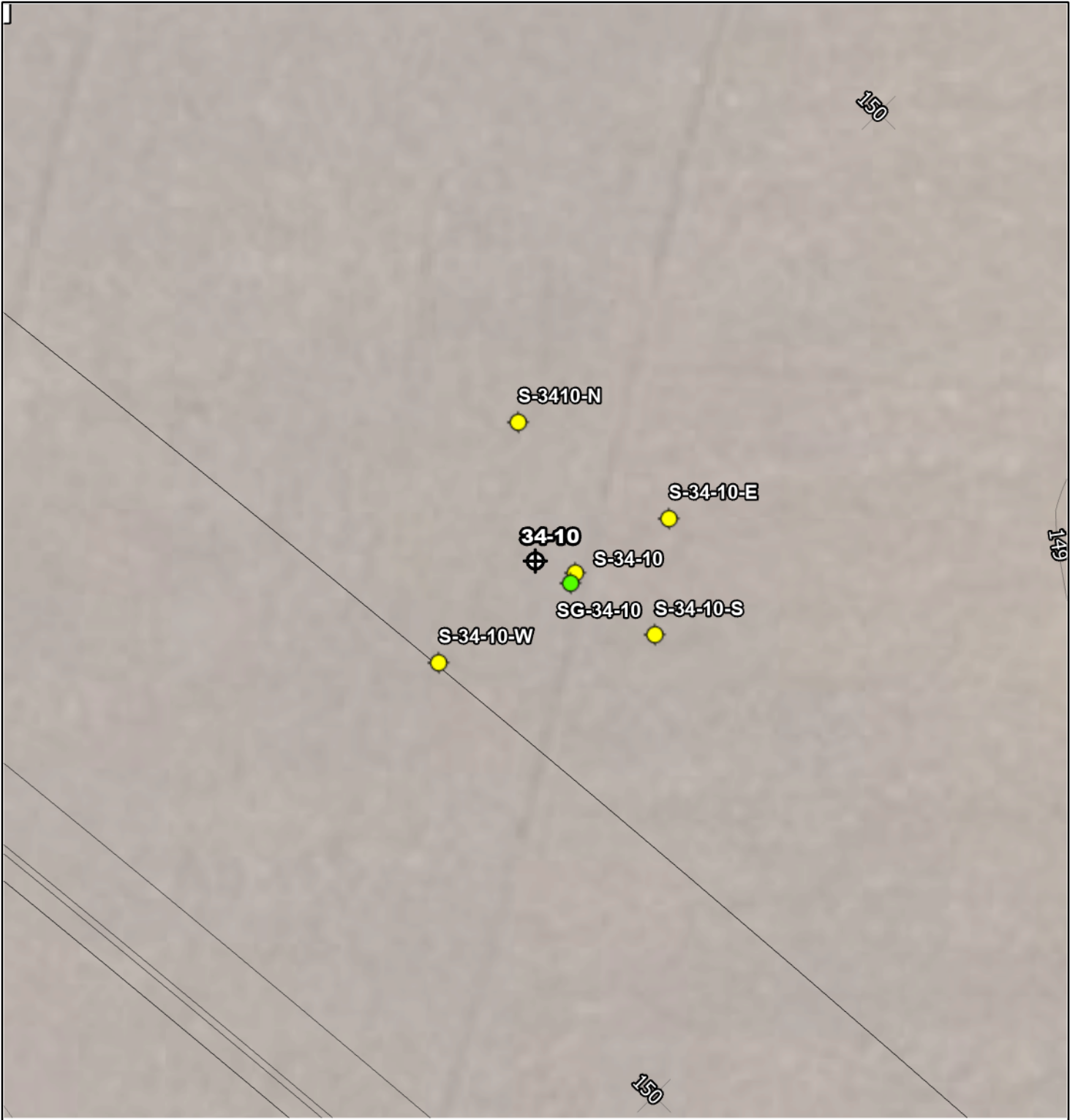
BASE MAP SOURCE: ESRI MAPPING SERVICE 2019 AND ISAKSON & ASSOCIATES, INC. JANUARY 2021



SITE PLAN
BRIDLE GATE
BRENTWOOD, CALIFORNIA




PROJECT NO. : 3359.210.001	2
SCALE: AS SHOWN	
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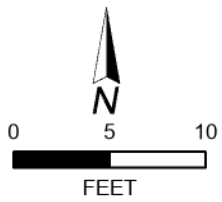
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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

-  Abandoned Wellhead (Isakson, 2019/2020)
-  Soil Gas Samples (ENGEO, 2020)
-  Soil Gas Samples (ENGEO, 2020)



BASEMAP SOURCE: ISAKSON & ASSOCIATES, INC. JANUARY 2021, ESRI MAPPING SERVICES, 2019

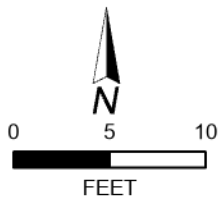


34-10
 BRIDLE GATE
 BRENTWOOD, CALIFORNIA

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FIGURE NO.
2A

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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

-  Abandoned Wellhead (Isakson, 2019/2020)
-  Soil Gas Samples (ENGEO, 2020)
-  Soil Gas Samples (ENGEO, 2020)

BASEMAP SOURCE: ISAKSON & ASSOCIATES, INC. JANUARY 2021, ESRI MAPPING SERVICES, 2019



3-10
BRIDLE GATE
BRENTWOOD, CALIFORNIA

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SCALE: AS SHOWN

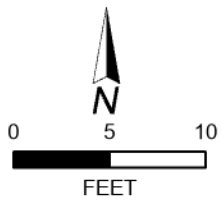
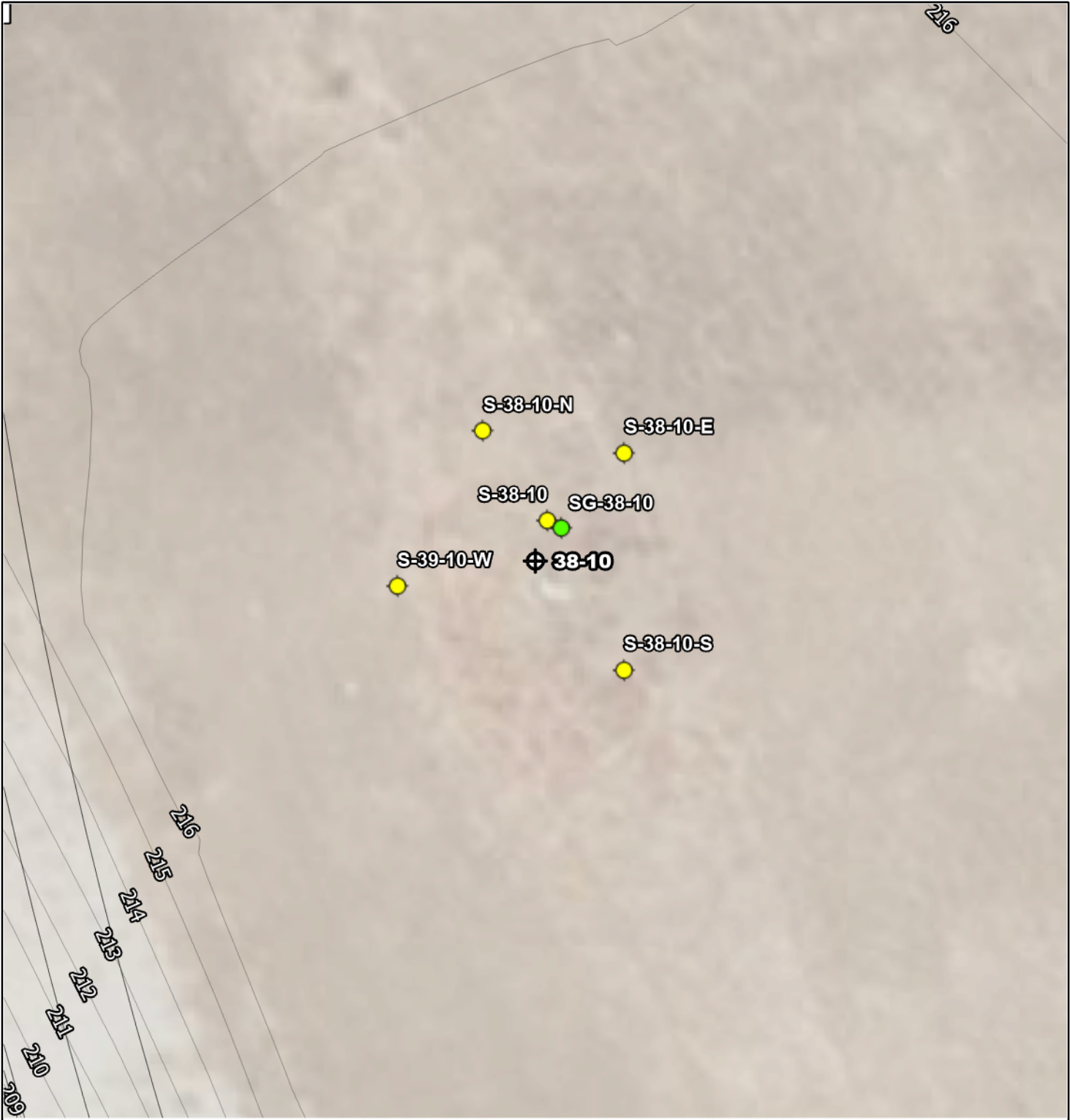
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FIGURE NO.




2B

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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

-  Abandoned Wellhead (Isakson, 2019/2020)
-  Soil Gas Samples (ENGEO, 2020)
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BASEMAP SOURCE: ISAKSON & ASSOCIATES, INC. JANUARY 2021, ESRI MAPPING SERVICES, 2019

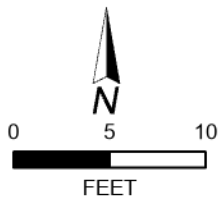
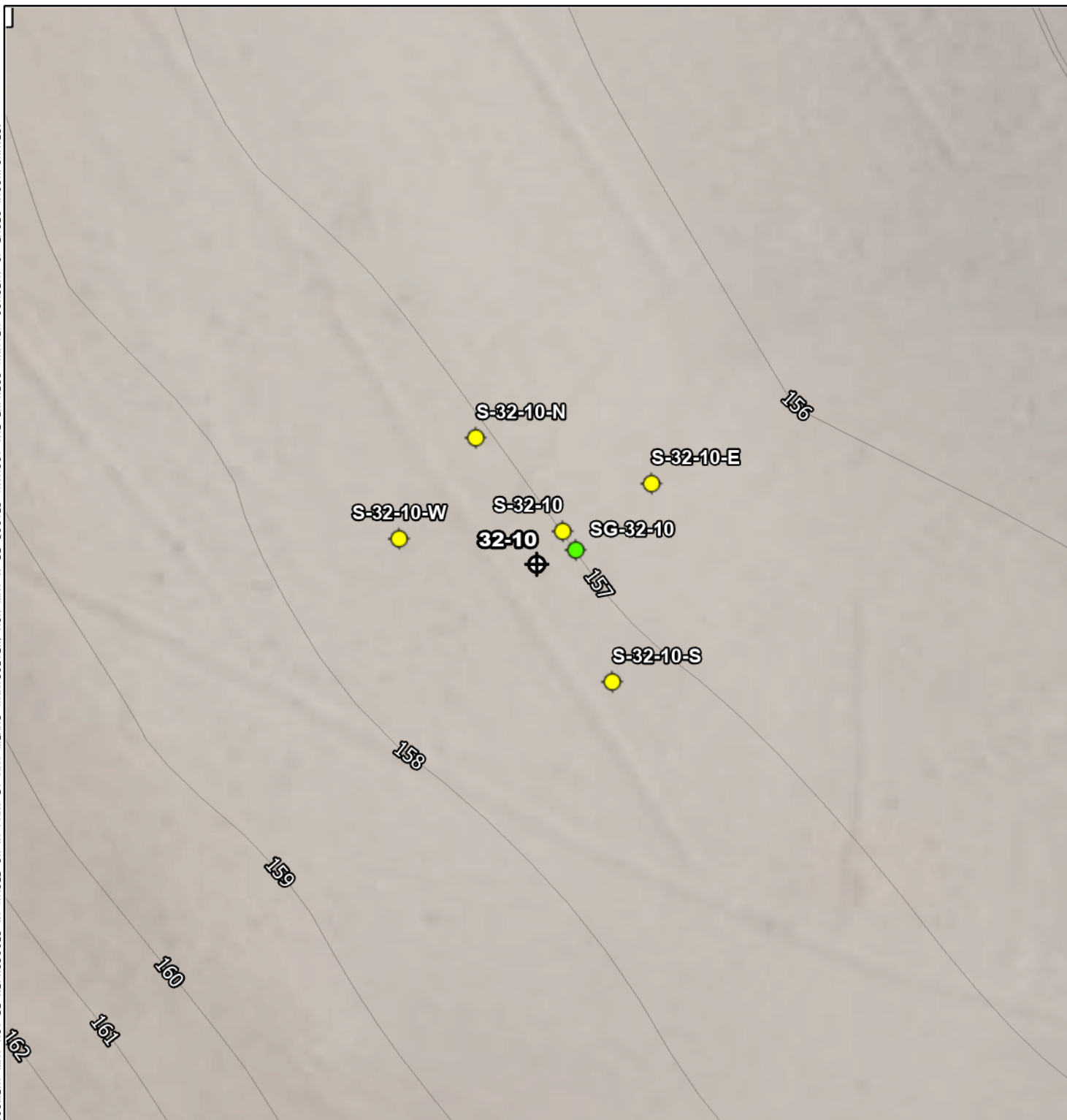


38-10
BRIDLE GATE
BRENTWOOD, CALIFORNIA

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FIGURE NO.
2C

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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

-  Abandoned Wellhead (Isakson, 2019/2020)
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BASEMAP SOURCE: ISAKSON & ASSOCIATES, INC. JANUARY 2021, ESRI MAPPING SERVICES, 2019



32-10
BRIDLE GATE
BRENTWOOD, CALIFORNIA

PROJECT NO. : 03359.210.001

SCALE: AS SHOWN

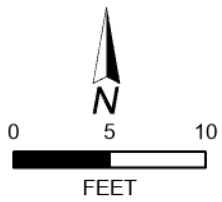
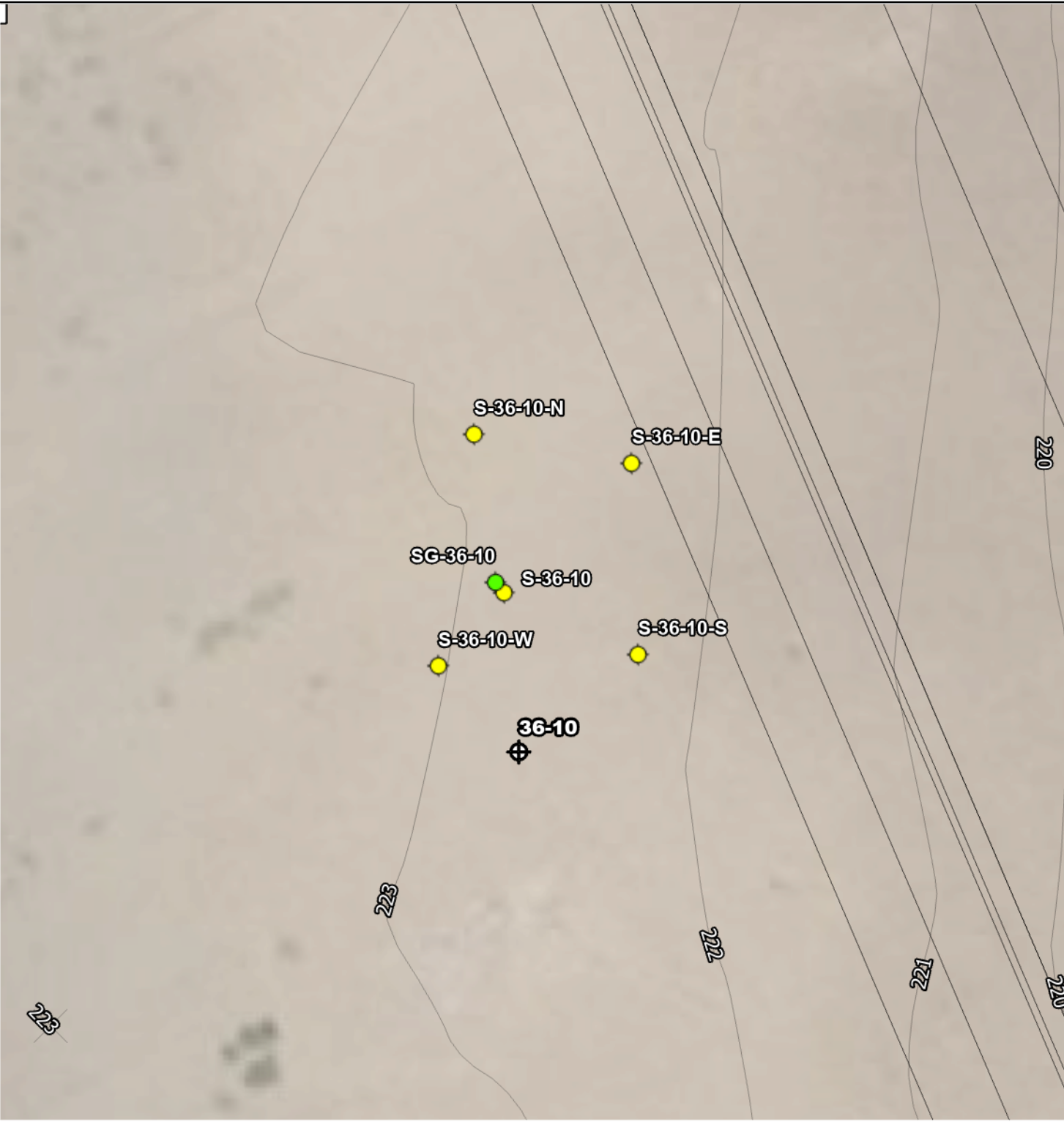
DRAWN BY: QRL

CHECKED BY: BES

FIGURE NO.




2D

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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

-  Abandoned Wellhead (Isakson, 2019/2020)
-  Soil Gas Samples (ENGEO, 2020)
-  Soil Gas Samples (ENGEO, 2020)

BASEMAP SOURCE: ISAKSON & ASSOCIATES, INC. JANUARY 2021, ESRI MAPPING SERVICES, 2019

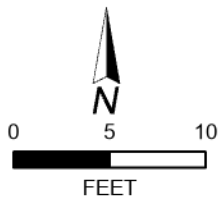
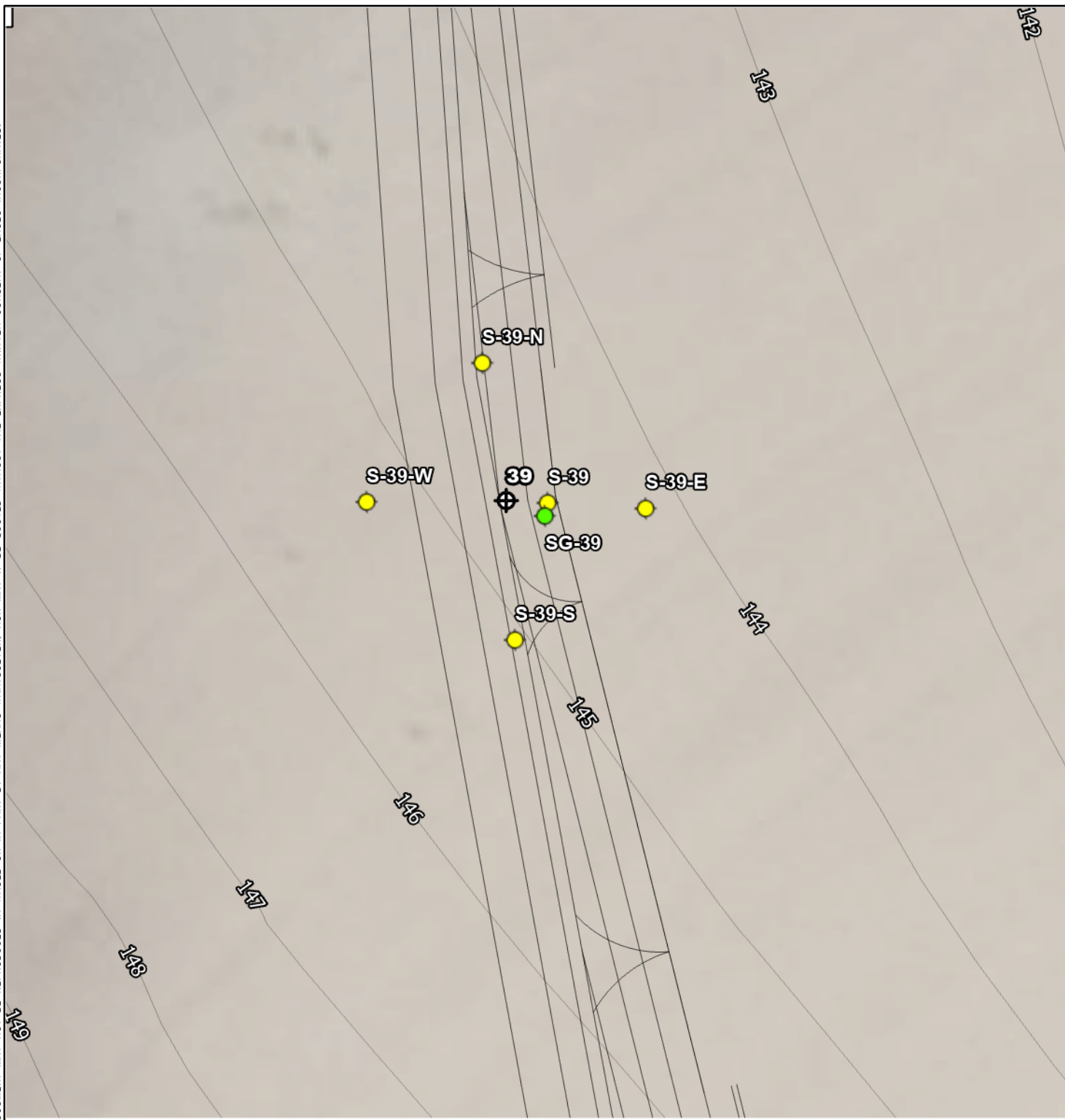


36-10
BRIDLE GATE
BRENTWOOD, CALIFORNIA

PROJECT NO. : 03359.210.001	
SCALE: AS SHOWN	
DRAWN BY: QRL	CHECKED BY: BES




FIGURE NO.
2E

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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

-  Abandoned Wellhead (Isakson, 2019/2020)
-  Soil Gas Samples (ENGEO, 2020)
-  Soil Gas Samples (ENGEO, 2020)

BASEMAP SOURCE: ISAKSON & ASSOCIATES, INC. JANUARY 2021, ESRI MAPPING SERVICES, 2019

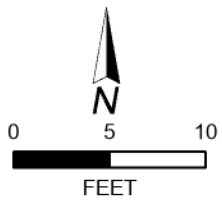
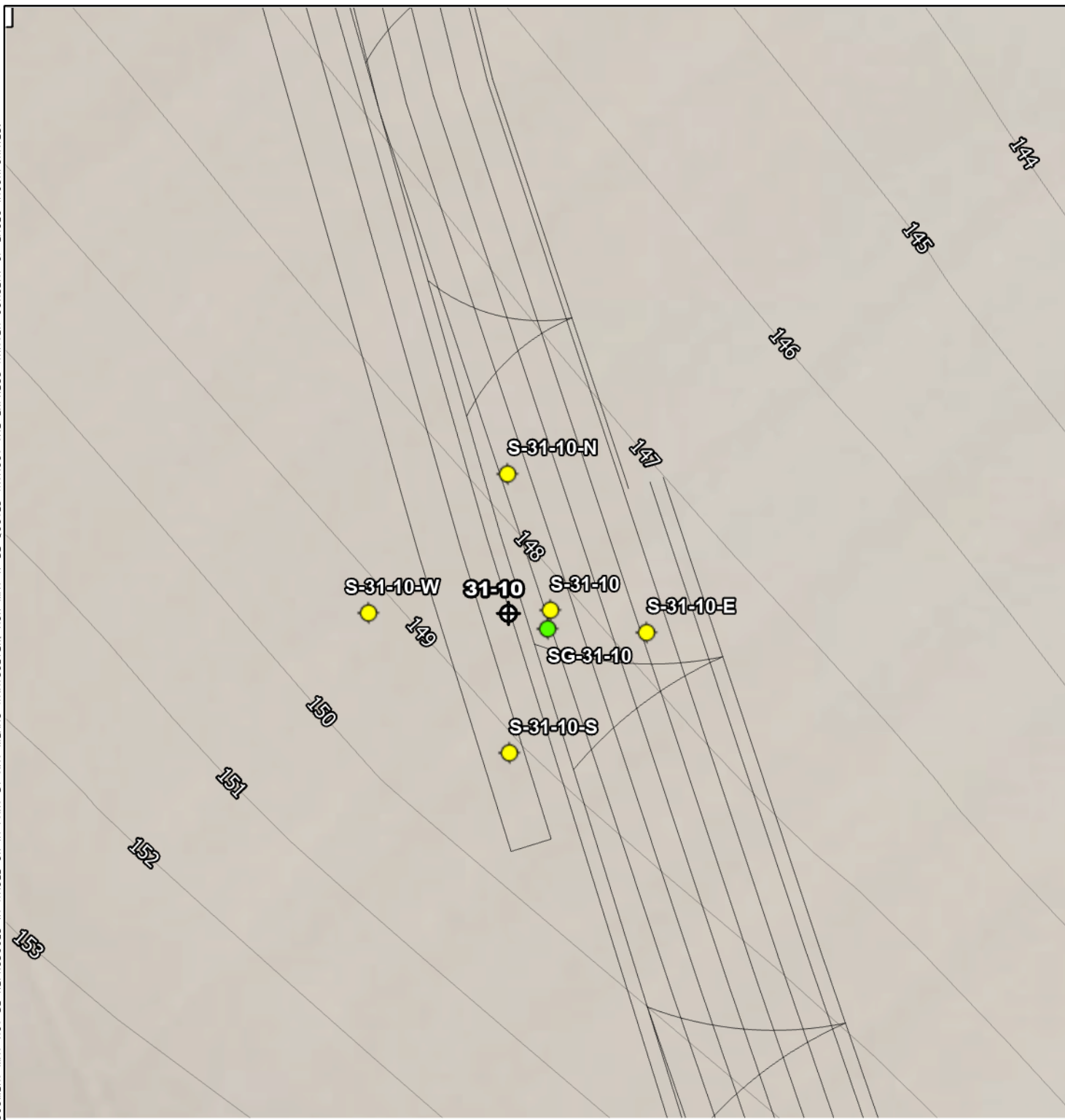


39
BRIDLE GATE
BRENTWOOD, CALIFORNIA

PROJECT NO. : 03359.210.001	
SCALE: AS SHOWN	
DRAWN BY: QRL	CHECKED BY: BES




FIGURE NO.
2F

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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

-  Abandoned Wellhead (Isakson, 2019/2020)
-  Soil Gas Samples (ENGEO, 2020)
-  Soil Gas Samples (ENGEO, 2020)

BASEMAP SOURCE: ISAKSON & ASSOCIATES, INC. JANUARY 2021, ESRI MAPPING SERVICES, 2019

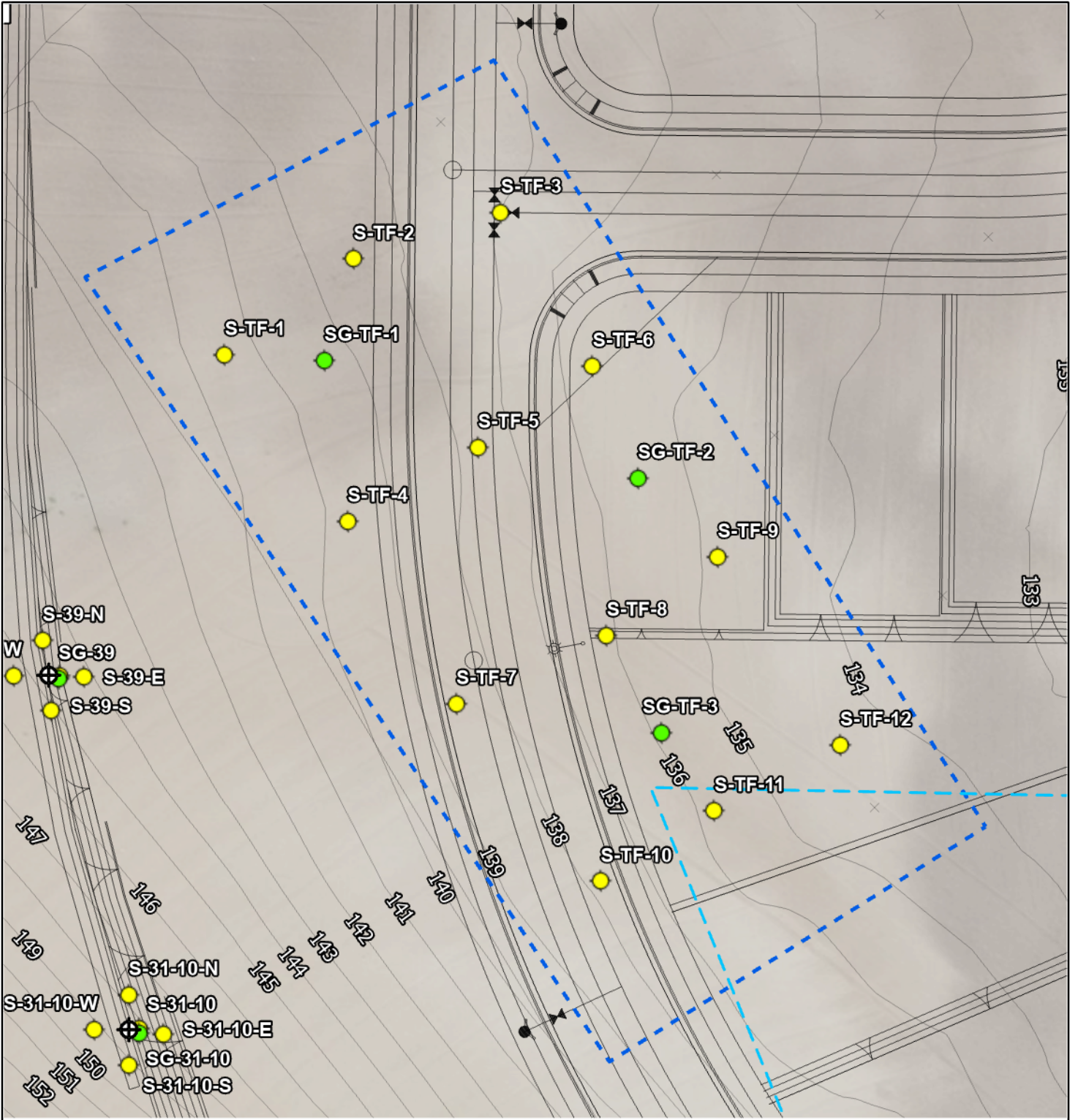


31-10
BRIDLE GATE
BRENTWOOD, CALIFORNIA




PROJECT NO. : 03359.210.001	
SCALE: AS SHOWN	
DRAWN BY: QRL	CHECKED BY: BES

FIGURE NO.
2G

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EXPLANATION

- ALL LOCATIONS ARE APPROXIMATE
-  Abandoned Wellhead (Isakson, 2019/2020)
 -  Soil Gas Samples (ENGE0, 2020)
 -  Soil Gas Samples (ENGE0, 2020)

BASEMAP SOURCE: ISAKSON & ASSOCIATES, INC. JANUARY 2021, ESRI MAPPING SERVICES, 2019



FORMER OXY TANK FARM
 BRIDLE GATE
 BRENTWOOD, CALIFORNIA

PROJECT NO. : 03359.210.001	FIGURE NO.
SCALE: AS SHOWN	2H
DRAWN BY: QRL	

TABLES

Table A: Soil Analytical Data

Table B: Soil Gas Analytical Data

TABLE B: Summary of Soil Gas Analytical Results

Sample ID	Date Collected	Fixed Gases		Volatile Organic Compounds (VOCs)																				
		Oxygen	Methane	1,2,4-Trimethylbenzene	1,3-Butadiene	2-Butanone (MEK)	2-Hexanone	4-Ethyl Toluene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Carbon Disulfide	Chloroform	Ethyl Benzene	Freon 113	Hexane	Total Xylenes	m,p-Xylene	o-Xylene	tert-Butanol	Tetrachloroethylene	Tetrahydrofuran	Toluene	Other VOCs
		%	%	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
RWQCB ESLs Residential ¹		--	--	--	--	170,000	--	--	--	1,100,000	3.2	--	4.1	37	--	--	3,500	3,500	--	--	15	--	10,000	--
SG-3-10	11/3/2020	15	<0.031	4.9	<1.1	8.8	<2.1	5.6	<2.1	17	3.8	2.4	4.3	5.3	<3.8	<1.8	23.5	17	6.5	11	6	52	21	ND
SG-39	11/3/2020	14	<0.023	<18	<10	<12	<20	<16	<22	25	<13	33	<29	1400	<31	24	6100	4800	1300	<19	<44	44	200	ND
SG-TF1	11/3/2020	14	<0.021	2.6	<1.1	<1.5	<2.1	<2.5	<2.1	<12	4.8	8.2	8.7	20	<3.8	9.8	92	72	20	11	4.6	<1.5	8.6	ND
SG-TF2	11/3/2020	14	<0.021	<2.5	<1.1	<1.5	<2.1	<2.5	<2.1	<12	3.5	6.6	4.1	<2.2	<3.8	9.8	<4.4	<2.2	<2.2	<1.5	4.7	<1.5	7.3	ND
SG-TF3	11/3/2020	15	<0.029	4.4	1.1	33	12	2.8	13	83	5.1	6.3	<2.4	2.8	<3.8	6.4	9.0	6.8	2.2	7.3	5.5	<1.5	10	ND
SG-32-10	11/5/2020	14	<0.019	<2.5	1.1	<1.5	<2.1	<2.5	<2.1	12	<1.6	8	<2.4	<2.2	4.8	4.1	<4.4	<2.2	<2.2	7.3	4.7	<1.5	6.7	ND
SG-34-10	11/5/2020	15	<0.013	<2.5	<1.1	<1.5	<2.1	<2.5	<2.1	<12	<1.6	<1.6	<2.4	<2.2	<3.8	<1.8	<4.4	<2.2	<2.2	<1.5	<3.4	<1.5	3.3	ND
SG-36-10	11/5/2020	15	<0.014	<2.5	<1.1	<1.5	<2.1	<2.5	<2.1	15	<1.6	1.8	<2.4	<2.2	<3.8	<1.8	<4.4	<2.2	<2.2	5.1	5.2	<1.5	6.2	ND
SG-38-10	11/5/2020	14	<0.014	<2.5	<1.1	<1.5	<2.1	<2.5	<2.1	<12	<1.6	<1.6	<2.4	<2.2	<3.8	<1.8	<4.4	<2.2	<2.2	<1.5	4.7	<1.5	5.3	ND

Notes:

-- no applicable screening level

<0.10 indicates the concentration was not detected above the laboratory reporting limit of 0.10 (units).

BOLD indicates the concentration was detected above the laboratory reporting limits.

Highlighted indicates that the detected concentration exceeds the screening level.

¹ Regional Water Quality Control Board (RWQCB); Environmental Screening Levels (ESLs); Subslab Soil Gas Residential and Commercial Soil Gas (Table SG-1); 2019 (Rev. 2).

APPENDIX A

**TORRENT LABORATORY, INC.
Laboratory Analysis Reports**



Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: Brindle Gate

Work Order No.: 2011016

Dear Brooke Spruit:

Torrent Laboratory, Inc. received 20 sample(s) on November 03, 2020 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink that reads "Kathie Evans". The signature is written in a cursive style and is positioned above a horizontal line.

Kathie Evans
Project Manager

November 09, 2020

Date



Date: 11/9/2020

Client: Engeo (San Ramon)

Project: Brindle Gate

Work Order: 2011016

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.



Sample Result Summary

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date Received: 11/03/20

Date Reported: 11/09/20

S-3-10-S@5' 2011016-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
--------------------	------------------------	-----------	------------	------------	----------------	-------------

All compounds were non-detectable for this sample.

S-3-10-S@10' 2011016-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
--------------------	------------------------	-----------	------------	------------	----------------	-------------

All compounds were non-detectable for this sample.

S-3-10-W@5' 2011016-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
--------------------	------------------------	-----------	------------	------------	----------------	-------------

All compounds were non-detectable for this sample.

S-3-10-W@10' 2011016-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
--------------------	------------------------	-----------	------------	------------	----------------	-------------

All compounds were non-detectable for this sample.

S-3-10-E@5' 2011016-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
--------------------	------------------------	-----------	------------	------------	----------------	-------------

All compounds were non-detectable for this sample.

S-3-10-E@10' 2011016-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
--------------------	------------------------	-----------	------------	------------	----------------	-------------

All compounds were non-detectable for this sample.

S-3-10-N@5' 2011016-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
--------------------	------------------------	-----------	------------	------------	----------------	-------------

TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.87	mg/Kg
--------------------	---------	---	------	-----	------	-------

S-3-10-N@10' 2011016-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
--------------------	------------------------	-----------	------------	------------	----------------	-------------

All compounds were non-detectable for this sample.

S-3-10-C@5' 2011016-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
--------------------	------------------------	-----------	------------	------------	----------------	-------------

All compounds were non-detectable for this sample.



Sample Result Summary

Report prepared for: Brooke Spruit
Engco (San Ramon)

Date Received: 11/03/20

Date Reported: 11/09/20

S-3-10-C@10'

2011016-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-39-C@5' 2011016-011

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-39-C@10' 2011016-012

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-39-W@5' 2011016-013

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-39-W@10' 2011016-014

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-39-S@5' 2011016-015

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-39-S@10' 2011016-016

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-39-N@5' 2011016-017

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-39-N-@10' 2011016-018

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						



Sample Result Summary

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date Received: 11/03/20

Date Reported: 11/09/20

S-39-E@5' 2011016-019

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
--------------------	------------------------	-----------	------------	------------	----------------	-------------

All compounds were non-detectable for this sample.

S-39-E@10' 2011016-020

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	8.62	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	15.4	mg/Kg



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-3-10-S@5'	Lab Sample ID:	2011016-001A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 8:12		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	14:50	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	14:50	SN	451919
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		70.6		%	11/04/20	14:50	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126746	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/03/20	15:09	AD	451874
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		85.3		%	11/03/20	15:09	AD	451874

Prep Method: 5035	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126745	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/03/20	15:09	AD	451874
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/03/20	15:09	AD	451874
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/03/20	15:09	AD	451874
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	15:09	AD	451874
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/03/20	15:09	AD	451874
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	15:09	AD	451874
(S) Dibromofluoromethane	SW8260B		59.8 - 148		80.9		%	11/03/20	15:09	AD	451874
(S) Toluene-d8	SW8260B		55.2 - 133		100		%	11/03/20	15:09	AD	451874
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		82.5		%	11/03/20	15:09	AD	451874



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-3-10-S@10'	Lab Sample ID:	2011016-002A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 8:18		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	15:13	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	15:13	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		86.2		%	11/04/20	15:13	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126746	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/03/20	16:05	AD	451874
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		93.4		%	11/03/20	16:05	AD	451874

Prep Method: 5035	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126745	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/03/20	16:05	AD	451874
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/03/20	16:05	AD	451874
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/03/20	16:05	AD	451874
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	16:05	AD	451874
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/03/20	16:05	AD	451874
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	16:05	AD	451874
(S) Dibromofluoromethane	SW8260B		59.8 - 148		75.7		%	11/03/20	16:05	AD	451874
(S) Toluene-d8	SW8260B		55.2 - 133		95.5		%	11/03/20	16:05	AD	451874
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		80.1		%	11/03/20	16:05	AD	451874



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-3-10-W@5'	Lab Sample ID:	2011016-003A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 8:23		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	15:37	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	15:37	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		70.1		%	11/04/20	15:37	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126746	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/03/20	16:33	AD	451874
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		85.3		%	11/03/20	16:33	AD	451874

Prep Method: 5035	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126745	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/03/20	16:33	AD	451874
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/03/20	16:33	AD	451874
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/03/20	16:33	AD	451874
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	16:33	AD	451874
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/03/20	16:33	AD	451874
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	16:33	AD	451874
(S) Dibromofluoromethane	SW8260B		59.8 - 148		73.8		%	11/03/20	16:33	AD	451874
(S) Toluene-d8	SW8260B		55.2 - 133		97.3		%	11/03/20	16:33	AD	451874
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		82.2		%	11/03/20	16:33	AD	451874



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-3-10-W@10'	Lab Sample ID:	2011016-004A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 8:25		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	16:00	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	16:00	SN	451919
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		86.7		%	11/04/20	16:00	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126746	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/03/20	17:02	AD	451874
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		90.3		%	11/03/20	17:02	AD	451874

Prep Method: 5035	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126745	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/03/20	17:02	AD	451874
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/03/20	17:02	AD	451874
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/03/20	17:02	AD	451874
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	17:02	AD	451874
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/03/20	17:02	AD	451874
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	17:02	AD	451874
(S) Dibromofluoromethane	SW8260B		59.8 - 148		72.5		%	11/03/20	17:02	AD	451874
(S) Toluene-d8	SW8260B		55.2 - 133		96.4		%	11/03/20	17:02	AD	451874
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		83.1		%	11/03/20	17:02	AD	451874



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-3-10-E@5'	Lab Sample ID:	2011016-005A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 8:30		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	16:24	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	16:24	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		72.8		%	11/04/20	16:24	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126746	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/03/20	17:30	AD	451874
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		87.1		%	11/03/20	17:30	AD	451874

Prep Method: 5035	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126745	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/03/20	17:30	AD	451874
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/03/20	17:30	AD	451874
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/03/20	17:30	AD	451874
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	17:30	AD	451874
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/03/20	17:30	AD	451874
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	17:30	AD	451874
(S) Dibromofluoromethane	SW8260B		59.8 - 148		71.0		%	11/03/20	17:30	AD	451874
(S) Toluene-d8	SW8260B		55.2 - 133		96.3		%	11/03/20	17:30	AD	451874
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		83.1		%	11/03/20	17:30	AD	451874



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-3-10-E@10'	Lab Sample ID:	2011016-006A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 8:31		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	16:47	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	16:47	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		73.4		%	11/04/20	16:47	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126746	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/03/20	17:58	AD	451874
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		91.7		%	11/03/20	17:58	AD	451874

Prep Method: 5035	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126745	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/03/20	17:58	AD	451874
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/03/20	17:58	AD	451874
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/03/20	17:58	AD	451874
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	17:58	AD	451874
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/03/20	17:58	AD	451874
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	17:58	AD	451874
(S) Dibromofluoromethane	SW8260B		59.8 - 148		71.2		%	11/03/20	17:58	AD	451874
(S) Toluene-d8	SW8260B		55.2 - 133		94.2		%	11/03/20	17:58	AD	451874
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		82.9		%	11/03/20	17:58	AD	451874



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-3-10-N@5'	Lab Sample ID:	2011016-007A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 8:35		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.87		mg/Kg	11/05/20	11:16	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/05/20	11:16	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		77.2		%	11/05/20	11:16	SN	451919

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126746	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/03/20	18:26	AD	451874
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		84.2		%	11/03/20	18:26	AD	451874

Prep Method: 5035	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126745	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/03/20	18:26	AD	451874
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/03/20	18:26	AD	451874
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/03/20	18:26	AD	451874
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	18:26	AD	451874
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/03/20	18:26	AD	451874
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	18:26	AD	451874
(S) Dibromofluoromethane	SW8260B		59.8 - 148		67.6		%	11/03/20	18:26	AD	451874
(S) Toluene-d8	SW8260B		55.2 - 133		97.9		%	11/03/20	18:26	AD	451874
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		81.5		%	11/03/20	18:26	AD	451874



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-3-10-N@10'	Lab Sample ID:	2011016-008A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 8:37		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	17:34	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	17:34	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		92.8		%	11/04/20	17:34	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126746	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/03/20	18:55	AD	451874
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		83.6		%	11/03/20	18:55	AD	451874

Prep Method: 5035	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126745	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/03/20	18:55	AD	451874
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/03/20	18:55	AD	451874
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/03/20	18:55	AD	451874
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	18:55	AD	451874
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/03/20	18:55	AD	451874
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	18:55	AD	451874
(S) Dibromofluoromethane	SW8260B		59.8 - 148		69.6		%	11/03/20	18:55	AD	451874
(S) Toluene-d8	SW8260B		55.2 - 133		96.5		%	11/03/20	18:55	AD	451874
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		81.8		%	11/03/20	18:55	AD	451874



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-3-10-C@5'	Lab Sample ID:	2011016-009A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 8:44		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	17:58	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	17:58	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		95.3		%	11/04/20	17:58	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126746	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/03/20	19:23	AD	451874
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		79.6		%	11/03/20	19:23	AD	451874

Prep Method: 5035	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126745	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/03/20	19:23	AD	451874
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/03/20	19:23	AD	451874
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/03/20	19:23	AD	451874
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	19:23	AD	451874
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/03/20	19:23	AD	451874
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	19:23	AD	451874
(S) Dibromofluoromethane	SW8260B		59.8 - 148		68.0		%	11/03/20	19:23	AD	451874
(S) Toluene-d8	SW8260B		55.2 - 133		98.4		%	11/03/20	19:23	AD	451874
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		81.9		%	11/03/20	19:23	AD	451874



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-3-10-C@10'	Lab Sample ID:	2011016-010A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 8:46		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	18:23	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	18:23	SN	451919
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		93.5		%	11/04/20	18:23	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126746	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/03/20	19:52	AD	451874
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		85.9		%	11/03/20	19:52	AD	451874

Prep Method: 5035	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126745	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/03/20	19:52	AD	451874
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/03/20	19:52	AD	451874
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/03/20	19:52	AD	451874
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	19:52	AD	451874
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/03/20	19:52	AD	451874
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	19:52	AD	451874
(S) Dibromofluoromethane	SW8260B		59.8 - 148		66.4		%	11/03/20	19:52	AD	451874
(S) Toluene-d8	SW8260B		55.2 - 133		97.6		%	11/03/20	19:52	AD	451874
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		83.3		%	11/03/20	19:52	AD	451874



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-39-C@5'	Lab Sample ID:	2011016-011A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 9:56		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	19:33	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	19:33	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		44.7		%	11/04/20	19:33	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126746	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/03/20	20:21	AD	451874
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		77.4		%	11/03/20	20:21	AD	451874

Prep Method: 5035	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126745	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/03/20	20:21	AD	451874
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/03/20	20:21	AD	451874
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/03/20	20:21	AD	451874
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	20:21	AD	451874
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/03/20	20:21	AD	451874
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	20:21	AD	451874
(S) Dibromofluoromethane	SW8260B		59.8 - 148		65.5		%	11/03/20	20:21	AD	451874
(S) Toluene-d8	SW8260B		55.2 - 133		95.3		%	11/03/20	20:21	AD	451874
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		79.2		%	11/03/20	20:21	AD	451874



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-39-C@10'	Lab Sample ID:	2011016-012A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 9:58		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	19:56	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	19:56	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		94.6		%	11/04/20	19:56	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126746	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/03/20	20:50	AD	451874
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		84.8		%	11/03/20	20:50	AD	451874

Prep Method: 5035	Prep Batch Date/Time: 11/3/20	10:32:00AM
Prep Batch ID: 1126745	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/03/20	20:50	AD	451874
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/03/20	20:50	AD	451874
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/03/20	20:50	AD	451874
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	20:50	AD	451874
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/03/20	20:50	AD	451874
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/03/20	20:50	AD	451874
(S) Dibromofluoromethane	SW8260B		59.8 - 148		69.8		%	11/03/20	20:50	AD	451874
(S) Toluene-d8	SW8260B		55.2 - 133		95.6		%	11/03/20	20:50	AD	451874
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		81.7		%	11/03/20	20:50	AD	451874



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-39-W@5'	Lab Sample ID:	2011016-013A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 10:06		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	20:19	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	20:19	SN	451919
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		81.4		%	11/04/20	20:19	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126768	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/04/20	15:00	AD	451900
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		52.1		%	11/04/20	15:00	AD	451900

Prep Method: 5035	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126767	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/04/20	15:00	AD	451900
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/04/20	15:00	AD	451900
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/04/20	15:00	AD	451900
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	15:00	AD	451900
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/04/20	15:00	AD	451900
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	15:00	AD	451900
(S) Dibromofluoromethane	SW8260B		59.8 - 148		136		%	11/04/20	15:00	AD	451900
(S) Toluene-d8	SW8260B		55.2 - 133		120		%	11/04/20	15:00	AD	451900
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		114		%	11/04/20	15:00	AD	451900



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-39-W@10'	Lab Sample ID:	2011016-014A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 10:09		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	20:43	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	20:43	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		164	S	%	11/04/20	20:43	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126768	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/04/20	16:27	AD	451900
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		50.0		%	11/04/20	16:27	AD	451900

Prep Method: 5035	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126767	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/04/20	16:27	AD	451900
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/04/20	16:27	AD	451900
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/04/20	16:27	AD	451900
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	16:27	AD	451900
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/04/20	16:27	AD	451900
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	16:27	AD	451900
(S) Dibromofluoromethane	SW8260B		59.8 - 148		141		%	11/04/20	16:27	AD	451900
(S) Toluene-d8	SW8260B		55.2 - 133		116		%	11/04/20	16:27	AD	451900
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		111		%	11/04/20	16:27	AD	451900



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-39-S@5'	Lab Sample ID:	2011016-015A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 10:14		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	21:06	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	21:06	SN	451919
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		79.5		%	11/04/20	21:06	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126768	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/04/20	16:56	AD	451900
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		45.9		%	11/04/20	16:56	AD	451900

Prep Method: 5035	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126767	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/04/20	16:56	AD	451900
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/04/20	16:56	AD	451900
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/04/20	16:56	AD	451900
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	16:56	AD	451900
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/04/20	16:56	AD	451900
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	16:56	AD	451900
(S) Dibromofluoromethane	SW8260B		59.8 - 148		145		%	11/04/20	16:56	AD	451900
(S) Toluene-d8	SW8260B		55.2 - 133		118		%	11/04/20	16:56	AD	451900
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		112		%	11/04/20	16:56	AD	451900



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-39-S@10'	Lab Sample ID:	2011016-016A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 10:16		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	21:29	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	21:29	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		85.2		%	11/04/20	21:29	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126768	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/04/20	17:25	AD	451900
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		56.3		%	11/04/20	17:25	AD	451900

Prep Method: 5035	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126767	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/04/20	17:25	AD	451900
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/04/20	17:25	AD	451900
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/04/20	17:25	AD	451900
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	17:25	AD	451900
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/04/20	17:25	AD	451900
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	17:25	AD	451900
(S) Dibromofluoromethane	SW8260B		59.8 - 148		146		%	11/04/20	17:25	AD	451900
(S) Toluene-d8	SW8260B		55.2 - 133		118		%	11/04/20	17:25	AD	451900
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		111		%	11/04/20	17:25	AD	451900



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-39-N@5'	Lab Sample ID:	2011016-017A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 10:23		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	21:53	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	21:53	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		108		%	11/04/20	21:53	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126768	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/04/20	17:55	AD	451900
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		51.6		%	11/04/20	17:55	AD	451900

Prep Method: 5035	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126767	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/04/20	17:55	AD	451900
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/04/20	17:55	AD	451900
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/04/20	17:55	AD	451900
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	17:55	AD	451900
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/04/20	17:55	AD	451900
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	17:55	AD	451900
(S) Dibromofluoromethane	SW8260B		59.8 - 148		145		%	11/04/20	17:55	AD	451900
(S) Toluene-d8	SW8260B		55.2 - 133		121		%	11/04/20	17:55	AD	451900
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		117		%	11/04/20	17:55	AD	451900



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-39-N-@10'	Lab Sample ID:	2011016-018A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 10:25		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	22:16	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	22:16	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		79.0		%	11/04/20	22:16	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126768	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/04/20	18:24	AD	451900
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		55.7		%	11/04/20	18:24	AD	451900

Prep Method: 5035	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126767	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/04/20	18:24	AD	451900
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/04/20	18:24	AD	451900
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/04/20	18:24	AD	451900
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	18:24	AD	451900
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/04/20	18:24	AD	451900
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	18:24	AD	451900
(S) Dibromofluoromethane	SW8260B		59.8 - 148		141		%	11/04/20	18:24	AD	451900
(S) Toluene-d8	SW8260B		55.2 - 133		116		%	11/04/20	18:24	AD	451900
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		108		%	11/04/20	18:24	AD	451900



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-39-E@5'	Lab Sample ID:	2011016-019A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 10:27		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/04/20	22:40	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/04/20	22:40	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		54.3		%	11/04/20	22:40	SN	451919

Prep Method: 5035GRO	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126768	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/04/20	18:53	AD	451900
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		53.6		%	11/04/20	18:53	AD	451900

Prep Method: 5035	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126767	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/04/20	18:53	AD	451900
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/04/20	18:53	AD	451900
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/04/20	18:53	AD	451900
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	18:53	AD	451900
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/04/20	18:53	AD	451900
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	18:53	AD	451900
(S) Dibromofluoromethane	SW8260B		59.8 - 148		143		%	11/04/20	18:53	AD	451900
(S) Toluene-d8	SW8260B		55.2 - 133		117		%	11/04/20	18:53	AD	451900
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		116		%	11/04/20	18:53	AD	451900



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/09/20

Client Sample ID:	S-39-E@10'	Lab Sample ID:	2011016-020A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 10:29		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/3/20	5:00:00PM
Prep Batch ID: 1126754	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	8.62	x	mg/Kg	11/05/20	11:39	SN	451919
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	15.4		mg/Kg	11/05/20	11:39	SN	451919
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		85.5		%	11/05/20	11:39	SN	451919

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126768	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/04/20	19:23	AD	451900
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		44.9		%	11/04/20	19:23	AD	451900

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126817	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	18:52	JZ	451935
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	18:52	JZ	451935
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	18:52	JZ	451935
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	18:52	JZ	451935
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	18:52	JZ	451935
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	18:52	JZ	451935
(S) Dibromofluoromethane	SW8260B		59.8 - 148		139		%	11/05/20	18:52	JZ	451935
(S) Toluene-d8	SW8260B		55.2 - 133		117		%	11/05/20	18:52	JZ	451935
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		111		%	11/05/20	18:52	JZ	451935



MB Summary Report

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/03/20	Prep Batch:	1126745
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/3/2020	Analytical Batch:	451874
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	ND	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
TBA	12	50	ND	
Diisopropyl ether	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
Ethyl tert-Butyl ether	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethylene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	
Toluene	1.8	10	ND	
Tetrachloroethylene	1.7	10	ND	
trans-1,3-Dichloropropene	1.6	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.9	10	ND	
1,3-Dichloropropane	1.8	10	ND	
1,2-Dibromoethane	1.8	10	ND	
Chlorobenzene	1.8	10	ND	
Ethylbenzene	1.7	10	ND	
1,1,1,2-Tetrachloroethane	1.9	10	ND	
m,p-Xylene	3.2	10	ND	
o-Xylene	1.7	10	ND	



MB Summary Report

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/03/20	Prep Batch:	1126745
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/3/2020	Analytical Batch:	451874
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Styrene	1.6	10	ND	
Bromoform	1.7	10	ND	
Isopropyl Benzene	1.6	10	ND	
n-Propylbenzene	1.6	10	ND	
Bromobenzene	1.8	10	ND	
1,1,2,2-Tetrachloroethane	1.9	10	ND	
2-Chlorotoluene	1.8	10	ND	
1,3,5-Trimethylbenzene	1.6	10	ND	
1,2,3-Trichloropropane	1.9	10	ND	
4-Chlorotoluene	1.6	10	ND	
tert-Butylbenzene	1.6	10	ND	
1,2,4-Trimethylbenzene	1.4	10	ND	
sec-Butyl Benzene	1.6	10	ND	
p-Isopropyltoluene	1.5	10	ND	
1,3-Dichlorobenzene	1.7	10	ND	
1,4-Dichlorobenzene	1.7	10	ND	
n-Butylbenzene	1.5	10	ND	
1,2-Dichlorobenzene	1.8	10	ND	
1,2-Dibromo-3-Chloropropane	1.8	10	ND	
Hexachlorobutadiene	1.4	10	2.1	
1,2,4-Trichlorobenzene	1.5	10	1.9	
Naphthalene	1.7	10	2.3	
1,2,3-Trichlorobenzene	1.7	10	2.1	
2-Butanone	2.3	10	ND	
4-Methyl-2-Pentanone (MIBK)	2.0	50	ND	
Hexachloroethane	5.0	10	ND	
1,4-Dioxane	100	200	ND	
2-Hexanone	5.0	20	ND	
Acetone	8.2	20	ND	
(S) Dibromofluoromethane			88.8	
(S) Toluene-d8			94.0	
(S) 4-Bromofluorobenzene			81.5	



MB Summary Report

Work Order:	2011016	Prep Method:	5035GRO	Prep Date:	11/03/20	Prep Batch:	1126746
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/3/2020	Analytical Batch:	451874
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Gasoline	43	100	ND		
(S) 4-Bromofluorobenzene			102		

Work Order:	2011016	Prep Method:	3546_TPHSG	Prep Date:	11/03/20	Prep Batch:	1126754
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/4/2020	Analytical Batch:	451919
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Diesel (SG)	0.85	2.0	ND		
TPH as Motor Oil (SG)	3.2	10	ND		
Pentacosane (S)			85.2		



MB Summary Report

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/04/20	Prep Batch:	1126767
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	ND	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
TBA	12	50	ND	
Diisopropyl ether	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
Ethyl tert-Butyl ether	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethylene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	
Toluene	1.8	10	ND	
Tetrachloroethylene	1.7	10	ND	
trans-1,3-Dichloropropene	1.6	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.9	10	ND	
1,3-Dichloropropane	1.8	10	ND	
1,2-Dibromoethane	1.8	10	ND	
Chlorobenzene	1.8	10	ND	
Ethylbenzene	1.7	10	ND	
1,1,1,2-Tetrachloroethane	1.9	10	ND	
m,p-Xylene	3.2	10	ND	
o-Xylene	1.7	10	ND	



MB Summary Report

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/04/20	Prep Batch:	1126767
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Styrene	1.6	10	ND	
Bromoform	1.7	10	ND	
Isopropyl Benzene	1.6	10	ND	
n-Propylbenzene	1.6	10	ND	
Bromobenzene	1.8	10	ND	
1,1,2,2-Tetrachloroethane	1.9	10	ND	
2-Chlorotoluene	1.8	10	ND	
1,3,5-Trimethylbenzene	1.6	10	ND	
1,2,3-Trichloropropane	1.9	10	ND	
4-Chlorotoluene	1.6	10	ND	
tert-Butylbenzene	1.6	10	ND	
1,2,4-Trimethylbenzene	1.4	10	ND	
sec-Butyl Benzene	1.6	10	ND	
p-Isopropyltoluene	1.5	10	ND	
1,3-Dichlorobenzene	1.7	10	ND	
1,4-Dichlorobenzene	1.7	10	ND	
n-Butylbenzene	1.5	10	ND	
1,2-Dichlorobenzene	1.8	10	ND	
1,2-Dibromo-3-Chloropropane	1.8	10	ND	
Hexachlorobutadiene	1.4	10	ND	
1,2,4-Trichlorobenzene	1.5	10	ND	
Naphthalene	1.7	10	ND	
1,2,3-Trichlorobenzene	1.7	10	ND	
2-Butanone	2.3	10	ND	
4-Methyl-2-Pentanone (MIBK)	2.0	50	ND	
Hexachloroethane	5.0	10	ND	
1,4-Dioxane	100	200	ND	
2-Hexanone	5.0	20	ND	
Acetone	8.2	20	12	
(S) Dibromofluoromethane			140	
(S) Toluene-d8			114	
(S) 4-Bromofluorobenzene			108	



MB Summary Report

Work Order:	2011016	Prep Method:	5035GRO	Prep Date:	11/04/20	Prep Batch:	1126768
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	43	100	ND	
(S) 4-Bromofluorobenzene			64.7	



MB Summary Report

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	ND	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
TBA	12	50	ND	
Diisopropyl ether	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
Ethyl tert-Butyl ether	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethylene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	
Toluene	1.8	10	ND	
Tetrachloroethylene	1.7	10	ND	
trans-1,3-Dichloropropene	1.6	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.9	10	ND	
1,3-Dichloropropane	1.8	10	ND	
1,2-Dibromoethane	1.8	10	ND	
Chlorobenzene	1.8	10	ND	
Ethylbenzene	1.7	10	ND	
1,1,1,2-Tetrachloroethane	1.9	10	ND	
m,p-Xylene	3.2	10	ND	
o-Xylene	1.7	10	ND	



MB Summary Report

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	ND		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	7.7		
Naphthalene	1.7	10	5.9		
1,2,3-Trichlorobenzene	1.7	10	2.0		
2-Butanone	2.3	10	ND		
(S) Dibromofluoromethane			127		
(S) Toluene-d8			115		
(S) 4-Bromofluorobenzene			110		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/03/20	Prep Batch:	1126745
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/3/2020	Analytical Batch:	451874
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	99.1	113	13.2	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	103	115	11.0	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	97.4	108	9.95	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	97.1	109	11.4	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	95.2	106	10.4	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	90.5	108		59.8 - 148		
(S) Toluene-d8				50.0	102	108		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	84.6	95.4		55.8 - 141		

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/03/20	Prep Batch:	1126745
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/3/2020	Analytical Batch:	451874
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0		50.0	96.0	116	18.7	70 - 130	30	
Benzene	2.2	10		50.0	103	115	11.0	66.5 - 135	30	
Ethylbenzene	1.65	10.0		50.0	96.7	106	9.47	70 - 130	30	
Toluene	1.82	10		50.0	97.1	109	11.4	56.8 - 134	30	
m,p-Xylene	3.16	10.0		100	90.8	101	10.6	70 - 130	30	
o-Xylene	1.73	10.0		50.0	90.7	102	11.2	70 - 130	30	
(S) Dibromofluoromethane				50.0	90.5	108		59.8 - 148		
(S) Toluene-d8				50.0	102	108		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	84.6	95.4		55.8 - 141		

Work Order:	2011016	Prep Method:	5035GRO	Prep Date:	11/03/20	Prep Batch:	1126746
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/3/2020	Analytical Batch:	451874
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	115	105	9.09	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	113	96.6		43.9 - 127		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011016	Prep Method:	3546_TPHSG	Prep Date:	11/03/20	Prep Batch:	1126754
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/4/2020	Analytical Batch:	451919
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.85	2.0	ND	25.0	68.4	73.1	6.78	40 - 110	30	
Pentacosane (S)			ND	200	88.8	102		40 - 129		

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/04/20	Prep Batch:	1126767
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	83.6	96.3	14.2	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	90.0	102	12.9	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	91.5	102	11.1	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	97.2	110	12.5	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	92.0	105	13.4	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	90.1	107		59.8 - 148		
(S) Toluene-d8				50.0	93.6	108		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	90.5	102		55.8 - 141		

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/04/20	Prep Batch:	1126767
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0		50.0	82.9	99.0	17.6	70 - 130	30	
Benzene	2.2	10		50.0	90.0	102	12.9	66.5 - 135	30	
Ethylbenzene	1.65	10.0		50.0	93.2	109	15.6	70 - 130	30	
Toluene	1.82	10		50.0	97.2	110	12.5	56.8 - 134	30	
m,p-Xylene	3.16	10.0		100	99.1	114	14.0	70 - 130	30	
o-Xylene	1.73	10.0		50.0	84.4	96.7	13.7	70 - 130	30	
(S) Dibromofluoromethane				50.0	90.1	107		59.8 - 148		
(S) Toluene-d8				50.0	93.6	108		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	90.5	102		55.8 - 141		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011016	Prep Method:	5035GRO	Prep Date:	11/04/20	Prep Batch:	1126768
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	92.0	82.0	11.5	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	87.1	74.0		43.9 - 127		

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	83.4	101	18.7	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	88.2	109	20.7	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	89.9	111	21.3	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	91.6	113	20.7	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	89.1	108	19.3	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	106	117		59.8 - 148		
(S) Toluene-d8				50.0	102	117		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	99.2	113		55.8 - 141		

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0		50.0	90.2	116	24.7	70 - 130	30	
Benzene	2.2	10		50.0	88.2	109	20.7	66.5 - 135	30	
Ethylbenzene	1.65	10.0		50.0	90.5	111	20.1	70 - 130	30	
Toluene	1.82	10		50.0	91.6	113	20.7	56.8 - 134	30	
m,p-Xylene	3.16	10.0		100	95.1	116	19.8	70 - 130	30	
o-Xylene	1.73	10.0		50.0	85.3	103	18.5	70 - 130	30	
(S) Dibromofluoromethane				50.0	106	117		59.8 - 148		
(S) Toluene-d8				50.0	102	117		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	99.2	113		55.8 - 141		



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/03/20	Prep Batch:	1126745
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/3/2020	Analytical Batch:	451874
Spiked Sample:	2011016-001A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Benzene	2.23	10.0	ND	50	98.8	96.4	2.46	55 - 125	30	
Toluene	1.82	10.0	ND	50	89.8	87.6	2.48	55 - 125	30	
Ethylbenzene	1.65	10.0	ND	50	86.5	84.7	2.10	70 - 130	30	
m,p-Xylene	3.16	10.0	ND	100	80.9	81.1	0.247	70 - 130	30	
o-Xylene	1.73	10.0	ND	50	82.7	81.3	1.46	70 - 130	30	
MTBE	2.34	10.0	ND	50	106	103	2.68	70 - 130	30	
(S) Dibromofluoromethane				50	76.0	81.3		59.8 - 148		
(S) Toluene-d8				50	105	97.8		55.2 - 133		
(S) 4-Bromofluorobenzene				50	84.9	80.1		55.8 - 141		

Work Order:	2011016	Prep Method:	3546_TPHSG	Prep Date:	11/03/20	Prep Batch:	1126754
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/5/2020	Analytical Batch:	451919
Spiked Sample:	2011016-020A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.850	2.00	8.62	25.0	40.7	51.4	13.4	40 - 110	30	
Pentacosane (S)				200	77.8	91.4		40 - 129		

Work Order:	2011016	Prep Method:	5035	Prep Date:	11/04/20	Prep Batch:	1126767
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Spiked Sample:	2011016-015A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Benzene	2.23	10.0	ND	50	106	87.9	18.6	55 - 125	30	
Toluene	1.82	10.0	ND	50	109	93.0	16.0	55 - 125	30	
Ethylbenzene	1.65	10.0	ND	50	104	89.6	15.3	70 - 130	30	
m,p-Xylene	3.16	10.0	ND	100	112	94.8	16.6	70 - 130	30	
o-Xylene	1.73	10.0	ND	50	94.9	81.7	14.9	70 - 130	30	
MTBE	2.34	10.0	ND	50	108	90.6	17.5	70 - 130	30	
(S) Dibromofluoromethane				50	112	94.8		59.8 - 148		
(S) Toluene-d8				50	108	90.1		55.2 - 133		
(S) 4-Bromofluorobenzene				50	104	85.9		55.8 - 141		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 11/3/2020 10:30:00AM

Project Name: Brindle Gate

Received By: Lorna Imbat

Work Order No.: 2011016

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Yes Temperature: 2.0 °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: n/a pH Adjusted by: n/a

Comments:



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/6/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/3/2020
Time Received: 10:30 am

Comments:

Work Order # : 2011016

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011016-001A	S-3-10-S@5'	11/02/20 8:12	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-002A	S-3-10-S@10'	11/02/20 8:18	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-003A	S-3-10-W@5'	11/02/20 8:23	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-004A	S-3-10-W@10'	11/02/20 8:25	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-005A	S-3-10-E@5'	11/02/20 8:30	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-006A	S-3-10-E@10'	11/02/20 8:31	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-007A	S-3-10-N@5'	11/02/20 8:35	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-008A	S-3-10-N@10'	11/02/20 8:37	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-009A	S-3-10-C@5'	11/02/20 8:44	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-010A	S-3-10-C@10'	11/02/20 8:46	Soil	05/01/21			TPHDOSG_S_8015B	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/6/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/3/2020
Time Received: 10:30 am

Comments:

Work Order # : 2011016

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011016-011A	S-39-C@5'	11/02/20 9:56	Soil	05/01/21			VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-012A	S-39-C@10'	11/02/20 9:58	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-013A	S-39-W@5'	11/02/20 10:06	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-014A	S-39-W@10'	11/02/20 10:09	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-015A	S-39-S@5'	11/02/20 10:14	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-016A	S-39-S@10'	11/02/20 10:16	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-017A	S-39-N@5'	11/02/20 10:23	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-018A	S-39-N-@10'	11/02/20 10:25	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011016-019A	S-39-E@5'	11/02/20 10:27	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/6/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/3/2020
Time Received: 10:30 am

Comments:

Work Order # : 2011016

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011016-020A	S-39-E@10'	11/02/20 10:29	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_MBTEX	



CHAIN OF CUSTODY RECORD

2011016

8015

PROJECT NUMBER		PROJECT NAME					TPH-97 BTEX } 8200 MTBE } TPH-d/mg } WISO } cleanup																REMARKS REQUIRED DETECTION LIMITS
3359.210.001		Brindle Gate																					
SAMPLED BY: (SIGNATURE/PRINT) Taunee Werts																							
PROJECT MANAGER: (SIGNATURE/PRINT) Brooke Spruit																							
ROUTING: E-MAIL Bspruit, twerts, & smunger@engeo.com																							
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE																	
S-3-10-S@5'	11/2/20	08:12	soil	1	sieve	N/A	X	X	X	X												-001A	
S-3-10-S@10'		08:18					X	X	X	X												-002A	
S-3-10-W@5'		08:23					X	X	X	X												-003A	
↓ @10'		08:25					X	X	X	X												-004A	
S-3-10-E@5'		08:30					X	X	X	X												-005A	
↓ @10'		08:31					X	X	X	X												-006A	
S-3-10-N@5'		08:35					X	X	X	X												-007A	
↓ @10'		08:37					X	X	X	X												-008A	
S-3-10-C@5'		08:44					X	X	X	X												-009A	
↓ @10'		08:46					X	X	X	X												-010A	
S-39-C@5'		09:50					X	X	X	X												-011A	
↓ @10'		09:58					X	X	X	X												-012A	
S-39-W@5'		10:00					X	X	X	X												-013A	
↓ @10'		10:09					X	X	X	X												-014A	
S-39-S@5'		10:14					X	X	X	X												-015A	
↓ @10'		10:16					X	X	X	X												-016A	
S-39-N@5'		10:23					X	X	X	X												-017A	
↓ @10'		10:25					X	X	X	X												-018A	
S-39-E@5'		10:27					X	X	X	X												-019A	
↓ @10'		10:29					X	X	X	X												-020A	
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME		RECEIVED BY: (SIGNATURE)		DATE/TIME		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)											
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 11/3/20 07:00		RECEIVED BY: (SIGNATURE)		DATE/TIME		RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 11/3/20		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>											
RELINQUISHED BY: (SIGNATURE)		DATE/TIME 11/3/20 9:00		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS		REMARKS		REMARKS											

ENGEO
INCORPORATED

2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

Standard TAT
pg 1 of 2
DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT. COPY TO PROJECT FIELD FILES

FC temp 2#1



Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: Brindle Gate

Work Order No.: 2011017

Dear Brooke Spruit:

Torrent Laboratory, Inc. received 16 sample(s) on November 03, 2020 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink that reads "Kathie Evans". The signature is written in a cursive style and is positioned above a horizontal line.

Kathie Evans
Project Manager

November 06, 2020

Date



Date: 11/6/2020

Client: Engeo (San Ramon)

Project: Brindle Gate

Work Order: 2011017

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.



Sample Result Summary

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date Received: 11/03/20

Date Reported: 11/06/20

S-31-10-W@5' 2011017-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	17	40	454	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	64	200	961	mg/Kg

S-31-10-W@10' 2011017-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	17	40	372	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	64	200	610	mg/Kg

S-31-10-S@5' 2011017-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	4	6.8	16	173	mg/Kg
TPH as Motor Oil (SG)	SW8015B	4	25	80	415	mg/Kg

S-31-10-S@10' 2011017-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	5	8.5	20	270	mg/Kg
TPH as Motor Oil (SG)	SW8015B	5	32	100	424	mg/Kg

S-31-10-E@5' 2011017-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	2	3.4	8.0	70.7	mg/Kg
TPH as Motor Oil (SG)	SW8015B	2	13	40	199	mg/Kg

S-31-10-E@10' 2011017-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	20	34	80	372	mg/Kg
TPH as Motor Oil (SG)	SW8015B	20	130	400	609	mg/Kg

S-31-10-C@5' 2011017-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	3	2.6	6.0	69.9	mg/Kg
TPH as Motor Oil (SG)	SW8015B	3	9.5	30	160	mg/Kg

S-31-10-C@10' 2011017-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	5	4.3	10	126	mg/Kg
TPH as Motor Oil (SG)	SW8015B	5	16	50	202	mg/Kg



Sample Result Summary

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date Received: 11/03/20

Date Reported: 11/06/20

S-31-10-N@5' 2011017-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	3	5.1	12	124	mg/Kg
TPH as Motor Oil (SG)	SW8015B	3	19	60	312	mg/Kg

S-31-10-N@10' 2011017-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	20	17	40	195	mg/Kg
TPH as Motor Oil (SG)	SW8015B	20	64	200	343	mg/Kg

S-TF-6@5' 2011017-011

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	2	1.7	4.0	54.2	mg/Kg
TPH as Motor Oil (SG)	SW8015B	2	6.4	20	192	mg/Kg

S-TF-6@10' 2011017-012

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	3	2.6	6.0	36.2	mg/Kg
TPH as Motor Oil (SG)	SW8015B	3	9.5	30	131	mg/Kg

S-TF-3@5' 2011017-013

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	8.00	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	14.9	mg/Kg

S-TF-3@10' 2011017-014

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	6.97	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	11.8	mg/Kg

S-TF-2@5' 2011017-015

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	8.37	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	14.1	mg/Kg

S-TF-2@10' 2011017-016

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	12.9	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	24.2	mg/Kg



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-W@5'	Lab Sample ID:	2011017-001A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:00		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst: NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	17	40	454	x	mg/Kg	11/05/20	19:27	SN	451947
TPH as Motor Oil (SG)	SW8015B	10	64	200	961		mg/Kg	11/05/20	19:27	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		0.000	D	%	11/05/20	19:27	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-31-10-W@5'	Lab Sample ID: 2011017-001A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 11:00	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126768	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/04/20	19:52	AD	451900
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		37.6	S	%	11/04/20	19:52	AD	451900

NOTE: S – Surrogate recovery out of limits. Duplicate analysis yielded similar results indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-W@5'	Lab Sample ID:	2011017-001A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:00		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/4/20 10:37:00AM
Prep Batch ID: 1126767	Prep Analyst: ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/04/20	19:52	AD	451900
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/04/20	19:52	AD	451900
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/04/20	19:52	AD	451900
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	19:52	AD	451900
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/04/20	19:52	AD	451900
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	19:52	AD	451900
(S) Dibromofluoromethane	SW8260B		59.8 - 148		153	S	%	11/04/20	19:52	AD	451900
(S) Toluene-d8	SW8260B		55.2 - 133		117		%	11/04/20	19:52	AD	451900
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		116		%	11/04/20	19:52	AD	451900

NOTE: S – Surrogate recovery out of limits. Duplicate analysis yielded similar results indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-W@10'	Lab Sample ID:	2011017-002A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:05		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst:	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	17	40	372	x	mg/Kg	11/05/20	19:51	SN	451947
TPH as Motor Oil (SG)	SW8015B	10	64	200	610		mg/Kg	11/05/20	19:51	SN	451947
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		0.000	D	%	11/05/20	19:51	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-31-10-W@10'	Lab Sample ID: 2011017-002A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 11:05	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126820	Prep Analyst: JZHAO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	19:21	JZ	451935
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		50.7		%	11/05/20	19:21	JZ	451935



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-W@10'	Lab Sample ID:	2011017-002A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:05		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126817	Prep Analyst: JZHAO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	19:21	JZ	451935
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	19:21	JZ	451935
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	19:21	JZ	451935
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	19:21	JZ	451935
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	19:21	JZ	451935
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	19:21	JZ	451935
(S) Dibromofluoromethane	SW8260B		59.8 - 148		148		%	11/05/20	19:21	JZ	451935
(S) Toluene-d8	SW8260B		55.2 - 133		116		%	11/05/20	19:21	JZ	451935
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		121		%	11/05/20	19:21	JZ	451935



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-S@5'	Lab Sample ID:	2011017-003A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:12		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst: NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	4	6.8	16	173	x	mg/Kg	11/05/20	20:14	SN	451947
TPH as Motor Oil (SG)	SW8015B	4	25	80	415		mg/Kg	11/05/20	20:14	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		90.3		%	11/05/20	20:14	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-31-10-S@5'	Lab Sample ID: 2011017-003A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 11:12	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	13:13	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		77.6		%	11/05/20	13:13	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-S@5'	Lab Sample ID:	2011017-003A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:12		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126800	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	13:13	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	13:13	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	13:13	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	13:13	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	13:13	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	13:13	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		80.7		%	11/05/20	13:13	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		98.7		%	11/05/20	13:13	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		77.6		%	11/05/20	13:13	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-S@10'	Lab Sample ID:	2011017-004A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:00		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst: NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	5	8.5	20	270	x	mg/Kg	11/05/20	20:37	SN	451947
TPH as Motor Oil (SG)	SW8015B	5	32	100	424		mg/Kg	11/05/20	20:37	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		88.8		%	11/05/20	20:37	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-31-10-S@10'	Lab Sample ID: 2011017-004A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 11:00	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/4/20	10:37:00AM
Prep Batch ID: 1126768	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/04/20	20:52	AD	451900
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		46.3		%	11/04/20	20:52	AD	451900



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-S@10'	Lab Sample ID:	2011017-004A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:00		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/4/20 10:37:00AM
Prep Batch ID: 1126767	Prep Analyst: ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/04/20	20:52	AD	451900
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/04/20	20:52	AD	451900
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/04/20	20:52	AD	451900
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	20:52	AD	451900
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/04/20	20:52	AD	451900
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/04/20	20:52	AD	451900
(S) Dibromofluoromethane	SW8260B		59.8 - 148		154	S	%	11/04/20	20:52	AD	451900
(S) Toluene-d8	SW8260B		55.2 - 133		116		%	11/04/20	20:52	AD	451900
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		127		%	11/04/20	20:52	AD	451900

NOTE: S – Surrogate recovery out of limits. Duplicate analysis yielded similar results indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-E@5'	Lab Sample ID:	2011017-005A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:21		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst:	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	2	3.4	8.0	70.7	x	mg/Kg	11/06/20	13:41	SN	451947
TPH as Motor Oil (SG)	SW8015B	2	13	40	199		mg/Kg	11/06/20	13:41	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		74.5		%	11/06/20	13:41	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-31-10-E@5'	Lab Sample ID: 2011017-005A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 11:21	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	14:11	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		83.2		%	11/05/20	14:11	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-E@5'	Lab Sample ID:	2011017-005A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:21		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20 9:55:00AM
Prep Batch ID: 1126800	Prep Analyst: ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	14:11	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	14:11	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	14:11	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	14:11	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	14:11	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	14:11	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		81.0		%	11/05/20	14:11	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		99.8		%	11/05/20	14:11	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		83.2		%	11/05/20	14:11	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-E@10'	Lab Sample ID:	2011017-006A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:24		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst: NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	20	34	80	372	x	mg/Kg	11/05/20	21:24	SN	451947
TPH as Motor Oil (SG)	SW8015B	20	130	400	609		mg/Kg	11/05/20	21:24	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		0.000	D	%	11/05/20	21:24	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-E@10'	Lab Sample ID:	2011017-006A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:24		
SDG:			

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	14:40	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		77.5		%	11/05/20	14:40	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-E@10'	Lab Sample ID:	2011017-006A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 11:24		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126800	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	14:40	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	14:40	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	14:40	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	14:40	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	14:40	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	14:40	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		78.4		%	11/05/20	14:40	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		98.7		%	11/05/20	14:40	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		77.5		%	11/05/20	14:40	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-C@5'	Lab Sample ID:	2011017-007A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 12:37		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst:	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	3	2.6	6.0	69.9	x	mg/Kg	11/05/20	21:47	SN	451947
TPH as Motor Oil (SG)	SW8015B	3	9.5	30	160		mg/Kg	11/05/20	21:47	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		73.4		%	11/05/20	21:47	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-31-10-C@5'	Lab Sample ID: 2011017-007A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 12:37	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	15:08	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		67.7		%	11/05/20	15:08	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-C@5'	Lab Sample ID:	2011017-007A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 12:37		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126800	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	15:08	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	15:08	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	15:08	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	15:08	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	15:08	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	15:08	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		76.2		%	11/05/20	15:08	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		100		%	11/05/20	15:08	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		67.7		%	11/05/20	15:08	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-31-10-C@10'	Lab Sample ID: 2011017-008A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 12:39	
SDG:	

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst: NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	5	4.3	10	126	x	mg/Kg	11/05/20	23:21	SN	451947
TPH as Motor Oil (SG)	SW8015B	5	16	50	202		mg/Kg	11/05/20	23:21	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		74.8		%	11/05/20	23:21	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-31-10-C@10'	Lab Sample ID: 2011017-008A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 12:39	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	15:36	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		83.6		%	11/05/20	15:36	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-C@10'	Lab Sample ID:	2011017-008A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 12:39		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126800	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	15:36	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	15:36	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	15:36	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	15:36	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	15:36	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	15:36	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		72.5		%	11/05/20	15:36	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		98.3		%	11/05/20	15:36	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		82.2		%	11/05/20	15:36	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-N@5'	Lab Sample ID:	2011017-009A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 12:43		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst: NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	3	5.1	12	124	x	mg/Kg	11/05/20	23:44	SN	451947
TPH as Motor Oil (SG)	SW8015B	3	19	60	312		mg/Kg	11/05/20	23:44	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		76.2		%	11/05/20	23:44	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-31-10-N@5'	Lab Sample ID: 2011017-009A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 12:43	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	16:05	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		83.4		%	11/05/20	16:05	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-N@5'	Lab Sample ID:	2011017-009A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 12:43		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126800	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	16:05	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	16:05	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	16:05	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	16:05	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	16:05	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	16:05	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		75.3		%	11/05/20	16:05	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		96.1		%	11/05/20	16:05	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		81.5		%	11/05/20	16:05	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-31-10-N@10'	Lab Sample ID: 2011017-010A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 12:45	
SDG:	

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst: NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	20	17	40	195	x	mg/Kg	11/06/20	0:07	SN	451947
TPH as Motor Oil (SG)	SW8015B	20	64	200	343		mg/Kg	11/06/20	0:07	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		0.000	D	%	11/06/20	0:07	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-31-10-N@10'	Lab Sample ID: 2011017-010A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 12:45	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	16:33	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		72.8		%	11/05/20	16:33	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-31-10-N@10'	Lab Sample ID:	2011017-010A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 12:45		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126800	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	16:33	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	16:33	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	16:33	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	16:33	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	16:33	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	16:33	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		75.2		%	11/05/20	16:33	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		95.0		%	11/05/20	16:33	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		80.9		%	11/05/20	16:33	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-6@5'	Lab Sample ID:	2011017-011A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 13:36		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst: NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	2	1.7	4.0	54.2	x	mg/Kg	11/06/20	0:31	SN	451947
TPH as Motor Oil (SG)	SW8015B	2	6.4	20	192		mg/Kg	11/06/20	0:31	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		95.4		%	11/06/20	0:31	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-TF-6@5'	Lab Sample ID: 2011017-011A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 13:36	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	17:02	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		79.6		%	11/05/20	17:02	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-6@5'	Lab Sample ID:	2011017-011A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 13:36		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126800	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	17:02	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	17:02	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	17:02	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	17:02	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	17:02	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	17:02	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		72.3		%	11/05/20	17:02	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		96.6		%	11/05/20	17:02	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		82.8		%	11/05/20	17:02	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-6@10'	Lab Sample ID:	2011017-012A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 13:40		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst:	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	3	2.6	6.0	36.2	x	mg/Kg	11/06/20	14:04	SN	451947
TPH as Motor Oil (SG)	SW8015B	3	9.5	30	131		mg/Kg	11/06/20	14:04	SN	451947
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		102		%	11/06/20	14:04	SN	451947

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-TF-6@10'	Lab Sample ID: 2011017-012A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 13:40	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	17:30	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		75.2		%	11/05/20	17:30	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-6@10'	Lab Sample ID:	2011017-012A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 13:40		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126800	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	17:30	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	17:30	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	17:30	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	17:30	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	17:30	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	17:30	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		68.7		%	11/05/20	17:30	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		97.8		%	11/05/20	17:30	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		80.3		%	11/05/20	17:30	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-3@5'	Lab Sample ID:	2011017-013A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 13:45		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst: NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	8.00	x	mg/Kg	11/06/20	1:17	SN	451947
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	14.9		mg/Kg	11/06/20	1:17	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		79.1		%	11/06/20	1:17	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-TF-3@5'	Lab Sample ID: 2011017-013A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 13:45	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	17:58	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		87.4		%	11/05/20	17:58	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-3@5'	Lab Sample ID:	2011017-013A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 13:45		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126800	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	17:58	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	17:58	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	17:58	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	17:58	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	17:58	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	17:58	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		69.7		%	11/05/20	17:58	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		95.8		%	11/05/20	17:58	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		81.5		%	11/05/20	17:58	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-3@10'	Lab Sample ID:	2011017-014A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 13:49		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst: NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	6.97	x	mg/Kg	11/06/20	1:41	SN	451947
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	11.8		mg/Kg	11/06/20	1:41	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		82.7		%	11/06/20	1:41	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-TF-3@10'	Lab Sample ID: 2011017-014A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 13:49	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	18:27	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		84.4		%	11/05/20	18:27	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-3@10'	Lab Sample ID:	2011017-014A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 13:49		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126800	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	18:27	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	18:27	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	18:27	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	18:27	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	18:27	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	18:27	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		71.5		%	11/05/20	18:27	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		94.0		%	11/05/20	18:27	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		79.0		%	11/05/20	18:27	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-2@5'	Lab Sample ID:	2011017-015A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 14:02		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst: NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	8.37	x	mg/Kg	11/06/20	2:04	SN	451947
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	14.1		mg/Kg	11/06/20	2:04	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		89.5		%	11/06/20	2:04	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-2@5'	Lab Sample ID:	2011017-015A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 14:02		
SDG:			

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	18:55	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		90.0		%	11/05/20	18:55	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-2@5'	Lab Sample ID:	2011017-015A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 14:02		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126800	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	18:55	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	18:55	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	18:55	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	18:55	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	18:55	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	18:55	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		67.3		%	11/05/20	18:55	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		97.2		%	11/05/20	18:55	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		78.9		%	11/05/20	18:55	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-2@10'	Lab Sample ID:	2011017-016A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 14:06		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/4/20	2:18:00PM
Prep Batch ID: 1126773	Prep Analyst: NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	12.9	x	mg/Kg	11/06/20	2:28	SN	451947
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	24.2		mg/Kg	11/06/20	2:28	SN	451947
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		99.7		%	11/06/20	2:28	SN	451947

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID: S-TF-2@10'	Lab Sample ID: 2011017-016A
Project Name/Location: Brindle Gate	Sample Matrix: Soil
Project Number: 3359.210.001	
Date/Time Sampled: 11/02/20 / 14:06	
SDG:	

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126803	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	19:24	AD	451926
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		90.0		%	11/05/20	19:24	AD	451926



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/03/20, 10:30 am
Date Reported: 11/06/20

Client Sample ID:	S-TF-2@10'	Lab Sample ID:	2011017-016A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/02/20 / 14:06		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	9:55:00AM
Prep Batch ID: 1126800	Prep Analyst: ADEB	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	19:24	AD	451926
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	19:24	AD	451926
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	19:24	AD	451926
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	19:24	AD	451926
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	19:24	AD	451926
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	19:24	AD	451926
(S) Dibromofluoromethane	SW8260B		59.8 - 148		70.0		%	11/05/20	19:24	AD	451926
(S) Toluene-d8	SW8260B		55.2 - 133		93.1		%	11/05/20	19:24	AD	451926
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		82.0		%	11/05/20	19:24	AD	451926



MB Summary Report

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/04/20	Prep Batch:	1126767
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	1.2	10	ND		
Chloromethane	1.8	10	ND		
Vinyl Chloride	2.0	10	ND		
Bromomethane	2.7	10	ND		
Chloroethane	3.0	10	ND		
Trichlorofluoromethane	2.1	10	ND		
1,1-Dichloroethene	2.0	10	ND		
Freon 113	1.9	10	ND		
Methylene Chloride	7.1	10	ND		
trans-1,2-Dichloroethene	2.1	10	ND		
MTBE	2.3	10	ND		
TBA	12	50	ND		
Diisopropyl ether	2.3	10	ND		
1,1-Dichloroethane	2.2	10	ND		
Ethyl tert-Butyl ether	2.3	10	ND		
cis-1,2-Dichloroethene	2.2	10	ND		
2,2-Dichloropropane	1.9	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	2.4	10	ND		
Carbon Tetrachloride	2.1	10	ND		
1,1,1-Trichloroethane	2.1	10	ND		
1,1-Dichloropropene	2.0	10	ND		
Benzene	2.2	10	ND		
TAME	2.3	10	ND		
1,2-Dichloroethane	2.3	10	ND		
Trichloroethylene	1.8	10	ND		
Dibromomethane	1.8	10	ND		
1,2-Dichloropropane	1.9	10	ND		
Bromodichloromethane	2.0	10	ND		
cis-1,3-Dichloropropene	1.6	10	ND		
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethylbenzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		
o-Xylene	1.7	10	ND		
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		



MB Summary Report

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/04/20	Prep Batch:	1126767
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	ND		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	ND		
Naphthalene	1.7	10	ND		
1,2,3-Trichlorobenzene	1.7	10	ND		
2-Butanone	2.3	10	ND		
4-Methyl-2-Pentanone (MIBK)	2.0	50	ND		
Hexachloroethane	5.0	10	ND		
1,4-Dioxane	100	200	ND		
2-Hexanone	5.0	20	ND		
Acetone	8.2	20	12		
(S) Dibromofluoromethane			140		
(S) Toluene-d8			114		
(S) 4-Bromofluorobenzene			108		

Work Order:	2011017	Prep Method:	5035GRO	Prep Date:	11/04/20	Prep Batch:	1126768
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Gasoline	43	100	ND		
(S) 4-Bromofluorobenzene			64.7		



MB Summary Report

Work Order:	2011017	Prep Method:	3546_TPHSG	Prep Date:	11/04/20	Prep Batch:	1126773
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/5/2020	Analytical Batch:	451947
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.85	2.0	ND	
TPH as Motor Oil (SG)	3.2	10	ND	
Pentacosane (S)			97.7	



MB Summary Report

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126800
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451926
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	1.2	10	ND		
Chloromethane	1.8	10	ND		
Vinyl Chloride	2.0	10	ND		
Bromomethane	2.7	10	ND		
Chloroethane	3.0	10	ND		
Trichlorofluoromethane	2.1	10	ND		
1,1-Dichloroethene	2.0	10	ND		
Freon 113	1.9	10	ND		
Methylene Chloride	7.1	10	ND		
trans-1,2-Dichloroethene	2.1	10	ND		
MTBE	2.3	10	ND		
TBA	12	50	ND		
Diisopropyl ether	2.3	10	ND		
1,1-Dichloroethane	2.2	10	ND		
Ethyl tert-Butyl ether	2.3	10	ND		
cis-1,2-Dichloroethene	2.2	10	ND		
2,2-Dichloropropane	1.9	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	2.4	10	ND		
Carbon Tetrachloride	2.1	10	ND		
1,1,1-Trichloroethane	2.1	10	ND		
1,1-Dichloropropene	2.0	10	ND		
Benzene	2.2	10	ND		
TAME	2.3	10	ND		
1,2-Dichloroethane	2.3	10	ND		
Trichloroethylene	1.8	10	ND		
Dibromomethane	1.8	10	ND		
1,2-Dichloropropane	1.9	10	ND		
Bromodichloromethane	2.0	10	ND		
cis-1,3-Dichloropropene	1.6	10	ND		
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethylbenzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		
o-Xylene	1.7	10	ND		
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		



MB Summary Report

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126800
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451926
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
n-Propylbenzene	1.6	10	ND	
Bromobenzene	1.8	10	ND	
1,1,2,2-Tetrachloroethane	1.9	10	ND	
2-Chlorotoluene	1.8	10	ND	
1,3,5-Trimethylbenzene	1.6	10	ND	
1,2,3-Trichloropropane	1.9	10	ND	
4-Chlorotoluene	1.6	10	ND	
tert-Butylbenzene	1.6	10	ND	
1,2,4-Trimethylbenzene	1.4	10	ND	
sec-Butyl Benzene	1.6	10	ND	
p-Isopropyltoluene	1.5	10	ND	
1,3-Dichlorobenzene	1.7	10	ND	
1,4-Dichlorobenzene	1.7	10	ND	
n-Butylbenzene	1.5	10	ND	
1,2-Dichlorobenzene	1.8	10	ND	
1,2-Dibromo-3-Chloropropane	1.8	10	ND	
Hexachlorobutadiene	1.4	10	1.7	
1,2,4-Trichlorobenzene	1.5	10	1.7	
Naphthalene	1.7	10	2.1	
1,2,3-Trichlorobenzene	1.7	10	2.0	
2-Butanone	2.3	10	ND	
4-Methyl-2-Pentanone (MIBK)	2.0	50	ND	
Hexachloroethane	5.0	10	ND	
1,4-Dioxane	100	200	ND	
2-Hexanone	5.0	20	ND	
Acetone	8.2	20	ND	
(S) Dibromofluoromethane			84.7	
(S) Toluene-d8			95.5	
(S) 4-Bromofluorobenzene			82.4	

Work Order:	2011017	Prep Method:	5035GRO	Prep Date:	11/05/20	Prep Batch:	1126803
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451926
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	43	100	ND	
(S) 4-Bromofluorobenzene			101	



MB Summary Report

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	1.2	10	ND		
Chloromethane	1.8	10	ND		
Vinyl Chloride	2.0	10	ND		
Bromomethane	2.7	10	ND		
Chloroethane	3.0	10	ND		
Trichlorofluoromethane	2.1	10	ND		
1,1-Dichloroethene	2.0	10	ND		
Freon 113	1.9	10	ND		
Methylene Chloride	7.1	10	ND		
trans-1,2-Dichloroethene	2.1	10	ND		
MTBE	2.3	10	ND		
TBA	12	50	ND		
Diisopropyl ether	2.3	10	ND		
1,1-Dichloroethane	2.2	10	ND		
Ethyl tert-Butyl ether	2.3	10	ND		
cis-1,2-Dichloroethene	2.2	10	ND		
2,2-Dichloropropane	1.9	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	2.4	10	ND		
Carbon Tetrachloride	2.1	10	ND		
1,1,1-Trichloroethane	2.1	10	ND		
1,1-Dichloropropene	2.0	10	ND		
Benzene	2.2	10	ND		
TAME	2.3	10	ND		
1,2-Dichloroethane	2.3	10	ND		
Trichloroethylene	1.8	10	ND		
Dibromomethane	1.8	10	ND		
1,2-Dichloropropane	1.9	10	ND		
Bromodichloromethane	2.0	10	ND		
cis-1,3-Dichloropropene	1.6	10	ND		
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethylbenzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		
o-Xylene	1.7	10	ND		
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		



MB Summary Report

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	ND		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	7.7		
Naphthalene	1.7	10	5.9		
1,2,3-Trichlorobenzene	1.7	10	2.0		
2-Butanone	2.3	10	ND		
(S) Dibromofluoromethane			127		
(S) Toluene-d8			115		
(S) 4-Bromofluorobenzene			110		

Work Order:	2011017	Prep Method:	5035GRO	Prep Date:	11/05/20	Prep Batch:	1126820
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Gasoline	43	100	ND		
(S) 4-Bromofluorobenzene			65.6		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/04/20	Prep Batch:	1126767
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	83.6	96.3	14.2	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	90.0	102	12.9	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	91.5	102	11.1	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	97.2	110	12.5	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	92.0	105	13.4	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	90.1	107		59.8 - 148		
(S) Toluene-d8				50.0	93.6	108		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	90.5	102		55.8 - 141		

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/04/20	Prep Batch:	1126767
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0		50.0	82.9	99.0	17.6	70 - 130	30	
Benzene	2.2	10		50.0	90.0	102	12.9	66.5 - 135	30	
Ethylbenzene	1.65	10.0		50.0	93.2	109	15.6	70 - 130	30	
Toluene	1.82	10		50.0	97.2	110	12.5	56.8 - 134	30	
m,p-Xylene	3.16	10.0		100	99.1	114	14.0	70 - 130	30	
o-Xylene	1.73	10.0		50.0	84.4	96.7	13.7	70 - 130	30	
(S) Dibromofluoromethane				50.0	90.1	107		59.8 - 148		
(S) Toluene-d8				50.0	93.6	108		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	90.5	102		55.8 - 141		

Work Order:	2011017	Prep Method:	5035GRO	Prep Date:	11/04/20	Prep Batch:	1126768
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/4/2020	Analytical Batch:	451900
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	92.0	82.0	11.5	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	87.1	74.0		43.9 - 127		

Work Order:	2011017	Prep Method:	3546_TPHSG	Prep Date:	11/04/20	Prep Batch:	1126773
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/5/2020	Analytical Batch:	451947
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.85	2.0	ND	25.0	71.2	64.1	10.7	40 - 110	30	
Pentacosane (S)			ND	200	97.1	90.8		40 - 129		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126800
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451926
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	90.3	82.8	8.55	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	103	93.8	9.35	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	93.2	85.7	8.27	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	97.1	87.2	10.8	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	96.9	89.5	7.93	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	97.0	89.4		59.8 - 148		
(S) Toluene-d8				50.0	106	90.9		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	88.5	79.9		55.8 - 141		

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126800
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451926
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0		50.0	102	94.4	7.93	70 - 130	30	
Benzene	2.2	10		50.0	103	93.8	9.35	66.5 - 135	30	
Ethylbenzene	1.65	10.0		50.0	95.6	87.4	8.96	70 - 130	30	
Toluene	1.82	10		50.0	97.1	87.2	10.8	56.8 - 134	30	
m,p-Xylene	3.16	10.0		100	90.6	82.7	9.12	70 - 130	30	
o-Xylene	1.73	10.0		50.0	90.7	83.3	8.28	70 - 130	30	
(S) Dibromofluoromethane				50.0	97.0	89.4		59.8 - 148		
(S) Toluene-d8				50.0	106	90.9		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	88.5	79.9		55.8 - 141		

Work Order:	2011017	Prep Method:	5035GRO	Prep Date:	11/05/20	Prep Batch:	1126803
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	451926
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	118	111	6.11	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	108	110		43.9 - 127		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	83.4	101	18.7	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	88.2	109	20.7	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	89.9	111	21.3	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	91.6	113	20.7	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	89.1	108	19.3	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	106	117		59.8 - 148		
(S) Toluene-d8				50.0	102	117		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	99.2	113		55.8 - 141		

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0		50.0	90.2	116	24.7	70 - 130	30	
Benzene	2.2	10		50.0	88.2	109	20.7	66.5 - 135	30	
Ethylbenzene	1.65	10.0		50.0	90.5	111	20.1	70 - 130	30	
Toluene	1.82	10		50.0	91.6	113	20.7	56.8 - 134	30	
m,p-Xylene	3.16	10.0		100	95.1	116	19.8	70 - 130	30	
o-Xylene	1.73	10.0		50.0	85.3	103	18.5	70 - 130	30	
(S) Dibromofluoromethane				50.0	106	117		59.8 - 148		
(S) Toluene-d8				50.0	102	117		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	99.2	113		55.8 - 141		

Work Order:	2011017	Prep Method:	5035GRO	Prep Date:	11/05/20	Prep Batch:	1126820
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	85.4	81.6	4.55	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	109	93.7		43.9 - 127		



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011017	Prep Method:	3546_TPHSG	Prep Date:	11/04/20	Prep Batch:	1126773
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/6/2020	Analytical Batch:	451947
Spiked Sample:	2011017-016A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.850	2.00	12.9	25.0	83.5	82.8	0.593	40 - 110	30	
Pentacosane (S)				200	109	108		40 - 129		

Work Order:	2011017	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126800
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451926
Spiked Sample:	2011017-003A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Benzene	2.23	10.0	ND	50	106	106	0.000	55 - 125	30	
Toluene	1.82	10.0	ND	50	90.3	93.8	3.91	55 - 125	30	
Ethylbenzene	1.65	10.0	ND	50	87.0	89.3	2.50	70 - 130	30	
m,p-Xylene	3.16	10.0	ND	100	82.5	87.2	5.54	70 - 130	30	
o-Xylene	1.73	10.0	ND	50	82.9	85.8	3.32	70 - 130	30	
MTBE	2.34	10.0	ND	50	108	110	2.57	70 - 130	30	
(S) Dibromofluoromethane				50	76.9	84.7		59.8 - 148		
(S) Toluene-d8				50	94.6	99.5		55.2 - 133		
(S) 4-Bromofluorobenzene				50	80.6	80.2		55.8 - 141		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 11/3/2020 10:30:00AM

Project Name: Brindle Gate

Received By: Lorna Imbat

Work Order No.: 2011017

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Yes Temperature: 2.0 °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: N/A pH Adjusted by: N/A

Comments:

Sample -014A labelled S-TF-3 @ 5' VSCOC S-TF-3 @10' @ 13:49



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/6/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/3/2020
Time Received: 10:30 am

Comments:
Work Order # : **2011017**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011017-001A	S-31-10-W@5'	11/02/20 11:00	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-002A	S-31-10-W@10'	11/02/20 11:05	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-003A	S-31-10-S@5'	11/02/20 11:12	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-004A	S-31-10-S@10'	11/02/20 11:00	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-005A	S-31-10-E@5'	11/02/20 11:21	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-006A	S-31-10-E@10'	11/02/20 11:24	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-007A	S-31-10-C@5'	11/02/20 12:37	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-008A	S-31-10-C@10'	11/02/20 12:39	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-009A	S-31-10-N@5'	11/02/20 12:43	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-010A	S-31-10-N@10'	11/02/20 12:45	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-011A	S-TF-6@5'	11/02/20 13:36	Soil	05/01/21			TPHDOSG_S_8015B	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)

QC Level: II

Project Name: Brindle Gate

TAT Requested: 3 Day Std:3

Project # : 3359.210.001

Date Received: 11/3/2020

Report Due Date: 11/6/2020

Time Received: 10:30 am

Comments:

Work Order # : *2011017*

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011017-012A	S-TF-6@10'	11/02/20 13:40	Soil	05/01/21			VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-013A	S-TF-3@5'	11/02/20 13:45	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-014A	S-TF-3@10'	11/02/20 13:49	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-015A	S-TF-2@5'	11/02/20 14:02	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_MBTEX VOC_S_GRO mg/Kg	
2011017-016A	S-TF-2@10'	11/02/20 14:06	Soil	05/01/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_MBTEX	



CHAIN OF CUSTODY RECORD

2011017

PROJECT NUMBER 3359.210.001		PROJECT NAME Brindle Gate																			REMARKS REQUIRED DETECTION LIMITS	
SAMPLED BY: (SIGNATURE/PRINT) Taunee Werts																						
PROJECT MANAGER: (SIGNATURE/PRINT) Brooke Spruit																						
ROUTING: E-MAIL Bspruit, twerts, smunger@engco.com																						
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TPH-9	RTEx	MTBE	TPH-d/mo	WISG	WISG	WISG	WISG	WISG	WISG	WISG	WISG	WISG	WISG	WISG	WISG
S-31-10-W@5'	11/2/20	11:00	soil	1	Sleeve	N/A	X	X	X	X												-001A
↓ @10'		11:05					X	X	X	X												-002A
S-31-10-S@5'		11:12					X	X	X	X												-003A
↓ @10'		11:19					X	X	X	X												-004A
S-31-10-E@5'		11:21					X	X	X	X												-005A
↓ @10'		11:24					X	X	X	X												-006A
S-31-10-C@5'		12:37					X	X	X	X												-007A
↓ @10'		12:39					X	X	X	X												-008A
S-31-10-N@5'		12:43					X	X	X	X												-009A
↓ @10'		12:45					X	X	X	X												-010A
S-TF-W@5'		13:30					X	X	X	X												-011A
↓ @10'		13:40					X	X	X	X												-012A
S-TF-3@5'		13:45					X	X	X	X												-013A
↓ @10'		13:49					X	X	X	X												-014A
S-TF-2@5'		14:02					X	X	X	X												-015A
↓ @10'		14:06					X	X	X	X												-016A
RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED BY: (SIGNATURE)				DATE/TIME		RECEIVED BY: (SIGNATURE)										
RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED BY: (SIGNATURE)				DATE/TIME		RECEIVED BY: (SIGNATURE)										
RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)				DATE/TIME		REMARKS										

ENGEO
INCORPORATED

2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

Standard TAT
pg 2 of 2

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FC 5... 2#1



Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: Brindle Gate

Work Order No.: 2011036 Rev: 1

Dear Brooke Spruit:

Torrent Laboratory, Inc. received 20 sample(s) on November 04, 2020 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Kathie Evans
Project Manager

November 09, 2020

Date



Date: 11/9/2020

Client: Engeo (San Ramon)

Project: Brindle Gate

Work Order: 2011036

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Analytical Comments for method 8015B, 2011036-015A MS/MSD, QC Preparation Batch ID 1126810, Note: The % recoveries for TPH Diesel are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.

REVISIONS

Report revised to correct the sample ID for sample 008

Rev. 1 (12/2/20)



Sample Result Summary

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date Received: 11/04/20

Date Reported: 11/09/20

S-TF-1@5' 2011036-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	10.5	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	17.2	mg/Kg

S-TF-1@10' 2011036-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.91	mg/Kg

S-TF-4@5' 2011036-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	9.34	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	16.4	mg/Kg

S-TF-4@10' 2011036-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.87	mg/Kg

S-TF-7@5' 2011036-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	4	3.4	8.0	65.2	mg/Kg
TPH as Motor Oil (SG)	SW8015B	4	13	40	184	mg/Kg

S-TF-7@10' 2011036-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	20	17	40	192	mg/Kg
TPH as Motor Oil (SG)	SW8015B	20	64	200	277	mg/Kg

S-TF-10@5' 2011036-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	3	2.6	6.0	53.5	mg/Kg
TPH as Motor Oil (SG)	SW8015B	3	9.5	30	138	mg/Kg

S-TF-10@10' 2011036-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	3	2.6	6.0	66.2	mg/Kg
TPH as Motor Oil (SG)	SW8015B	3	9.5	30	92.3	mg/Kg



Sample Result Summary

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date Received: 11/04/20

Date Reported: 11/09/20

S-TF-11@5' 2011036-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	8.5	20	99.9	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	32	100	291	mg/Kg

S-TF-11@10' 2011036-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	8.5	20	177	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	32	100	202	mg/Kg

S-TF-12@5' 2011036-011

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	10.2	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	18.9	mg/Kg

S-TF-12@10' 2011036-012

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	10.2	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	18.9	mg/Kg

All compounds were non-detectable for this sample.

S-TF-8@5' 2011036-013

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	8.5	20	109	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	32	100	286	mg/Kg

S-TF-8@10' 2011036-014

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	8.5	20	176	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	32	100	269	mg/Kg

S-TF-9@5' 2011036-015

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	17.8	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	54.3	mg/Kg

S-TF-9@10' 2011036-016

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	5	4.3	10	85.4	mg/Kg
TPH as Motor Oil (SG)	SW8015B	5	16	50	135	mg/Kg



Sample Result Summary

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date Received: 11/04/20

Date Reported: 11/09/20

S-TF-5@5' 2011036-017

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	16.6	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	58.9	mg/Kg

S-TF-5@10' 2011036-018

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	8.74	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	17.2	mg/Kg

S-36-10-E@5' 2011036-019

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	8.5	20	96.5	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	32	100	387	mg/Kg

S-36-10-E@10' 2011036-020

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	19.4	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	61.1	mg/Kg



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-1@5'	Lab Sample ID:	2011036-001A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 7:36		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	10.5	x	mg/Kg	11/06/20	20:23	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	17.2		mg/Kg	11/06/20	20:23	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		80.3		%	11/06/20	20:23	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	12:27	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	12:27	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	12:27	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	12:27	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	12:27	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	12:27	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		132		%	11/06/20	12:27	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	11/06/20	12:27	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		114		%	11/06/20	12:27	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	12:27	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		62.1		%	11/06/20	12:27	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-1@10'	Lab Sample ID:	2011036-002A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 7:40		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.91	x	mg/Kg	11/06/20	20:46	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/06/20	20:46	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		80.0		%	11/06/20	20:46	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	14:23	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	14:23	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	14:23	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	14:23	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	14:23	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	14:23	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		147		%	11/06/20	14:23	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		118		%	11/06/20	14:23	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		118		%	11/06/20	14:23	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	14:23	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		61.6		%	11/06/20	14:23	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-4@5'	Lab Sample ID:	2011036-003A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 7:45		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	9.34	x	mg/Kg	11/06/20	21:10	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	16.4		mg/Kg	11/06/20	21:10	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		76.2		%	11/06/20	21:10	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	14:51	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	14:51	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	14:51	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	14:51	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	14:51	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	14:51	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		141		%	11/06/20	14:51	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	11/06/20	14:51	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		113		%	11/06/20	14:51	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	14:51	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		61.9		%	11/06/20	14:51	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-4@10'	Lab Sample ID:	2011036-004A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 7:49		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.87	x	mg/Kg	11/06/20	21:33	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/06/20	21:33	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		77.0		%	11/06/20	21:33	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	15:20	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	15:20	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	15:20	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	15:20	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	15:20	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	15:20	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		144		%	11/06/20	15:20	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		117		%	11/06/20	15:20	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		113		%	11/06/20	15:20	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	15:20	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		59.5		%	11/06/20	15:20	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-7@5'	Lab Sample ID:	2011036-005A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 7:56		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	4	3.4	8.0	65.2	x	mg/Kg	11/07/20	14:40	SN	451988
TPH as Motor Oil (SG)	SW8015B	4	13	40	184		mg/Kg	11/07/20	14:40	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		77.4		%	11/07/20	14:40	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	15:49	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	15:49	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	15:49	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	15:49	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	15:49	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	15:49	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		148		%	11/06/20	15:49	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		121		%	11/06/20	15:49	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		122		%	11/06/20	15:49	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	15:49	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		52.0		%	11/06/20	15:49	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-7@10'	Lab Sample ID:	2011036-006A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:00		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	20	17	40	192	x	mg/Kg	11/07/20	15:04	SN	451988
TPH as Motor Oil (SG)	SW8015B	20	64	200	277		mg/Kg	11/07/20	15:04	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		0.000	D	%	11/07/20	15:04	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	16:17	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	16:17	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	16:17	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	16:17	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	16:17	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	16:17	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		150	S	%	11/06/20	16:17	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		124		%	11/06/20	16:17	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		121		%	11/06/20	16:17	AD	452004

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	16:17	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		47.0		%	11/06/20	16:17	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-10@5'	Lab Sample ID:	2011036-007A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:11		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	3	2.6	6.0	53.5	x	mg/Kg	11/07/20	15:27	SN	451988
TPH as Motor Oil (SG)	SW8015B	3	9.5	30	138		mg/Kg	11/07/20	15:27	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		70.2		%	11/07/20	15:27	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	16:46	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	16:46	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	16:46	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	16:46	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	16:46	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	16:46	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		131		%	11/06/20	16:46	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		125		%	11/06/20	16:46	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		121		%	11/06/20	16:46	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	16:46	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		46.0		%	11/06/20	16:46	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-10@10'	Lab Sample ID:	2011036-008A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:15		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	3	2.6	6.0	66.2	x	mg/Kg	11/07/20	15:51	SN	451988
TPH as Motor Oil (SG)	SW8015B	3	9.5	30	92.3		mg/Kg	11/07/20	15:51	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		68.6		%	11/07/20	15:51	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	17:15	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	17:15	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	17:15	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	17:15	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	17:15	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	17:15	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		141		%	11/06/20	17:15	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		116		%	11/06/20	17:15	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		110		%	11/06/20	17:15	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	17:15	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		45.2		%	11/06/20	17:15	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-11@5'	Lab Sample ID:	2011036-009A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:25		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	8.5	20	99.9	x	mg/Kg	11/07/20	16:14	SN	451988
TPH as Motor Oil (SG)	SW8015B	10	32	100	291		mg/Kg	11/07/20	16:14	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		86.0		%	11/07/20	16:14	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	3:29	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	3:29	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	3:29	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	3:29	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	3:29	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	3:29	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		159	S	%	11/07/20	3:29	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	11/07/20	3:29	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		131		%	11/07/20	3:29	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	3:29	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		32.9	S	%	11/07/20	3:29	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-11@10'	Lab Sample ID:	2011036-010A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:26		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	8.5	20	177	x	mg/Kg	11/07/20	16:37	SN	451988
TPH as Motor Oil (SG)	SW8015B	10	32	100	202		mg/Kg	11/07/20	16:37	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		73.4		%	11/07/20	16:37	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	3:58	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	3:58	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	3:58	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	3:58	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	3:58	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	3:58	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		160	S	%	11/07/20	3:58	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		121		%	11/07/20	3:58	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		130		%	11/07/20	3:58	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	3:58	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		34.5	S	%	11/07/20	3:58	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-12@5'	Lab Sample ID:	2011036-011A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:33		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	10.2	x	mg/Kg	11/07/20	1:03	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	18.9		mg/Kg	11/07/20	1:03	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		73.6		%	11/07/20	1:03	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	4:27	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	4:27	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	4:27	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	4:27	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	4:27	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	4:27	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		158	S	%	11/07/20	4:27	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		114		%	11/07/20	4:27	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		116		%	11/07/20	4:27	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	4:27	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		45.6		%	11/07/20	4:27	AD	452010



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-12@10'	Lab Sample ID:	2011036-012A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:38		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/07/20	1:26	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/07/20	1:26	SN	451988
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		64.2		%	11/07/20	1:26	SN	451988

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	4:57	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	4:57	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	4:57	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	4:57	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	4:57	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	4:57	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		141		%	11/07/20	4:57	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		105		%	11/07/20	4:57	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		104		%	11/07/20	4:57	AD	452010

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	4:57	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		51.3		%	11/07/20	4:57	AD	452010



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-8@5'	Lab Sample ID:	2011036-013A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:58		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	8.5	20	109	x	mg/Kg	11/07/20	17:01	SN	451988
TPH as Motor Oil (SG)	SW8015B	10	32	100	286		mg/Kg	11/07/20	17:01	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		87.0		%	11/07/20	17:01	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	5:26	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	5:26	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	5:26	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	5:26	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	5:26	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	5:26	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		159	S	%	11/07/20	5:26	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		118		%	11/07/20	5:26	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		125		%	11/07/20	5:26	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	5:26	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		43.8	S	%	11/07/20	5:26	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-8@10'	Lab Sample ID:	2011036-014A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 9:01		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	8.5	20	176	x	mg/Kg	11/07/20	17:24	SN	451988
TPH as Motor Oil (SG)	SW8015B	10	32	100	269		mg/Kg	11/07/20	17:24	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		75.0		%	11/07/20	17:24	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	5:55	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	5:55	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	5:55	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	5:55	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	5:55	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	5:55	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		159	S	%	11/07/20	5:55	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		128		%	11/07/20	5:55	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		125		%	11/07/20	5:55	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	5:55	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		37.0	S	%	11/07/20	5:55	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-9@5'	Lab Sample ID:	2011036-015A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 9:06		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	17.8	x	mg/Kg	11/07/20	2:36	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	54.3		mg/Kg	11/07/20	2:36	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		78.1		%	11/07/20	2:36	SN	451988

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	6:24	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	6:24	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	6:24	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	6:24	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	6:24	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	6:24	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		168	S	%	11/07/20	6:24	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	11/07/20	6:24	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		129		%	11/07/20	6:24	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	6:24	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		37.2	S	%	11/07/20	6:24	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-9@10'	Lab Sample ID:	2011036-016A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 9:08		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	5	4.3	10	85.4	x	mg/Kg	11/07/20	17:48	SN	451988
TPH as Motor Oil (SG)	SW8015B	5	16	50	135		mg/Kg	11/07/20	17:48	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		77.5		%	11/07/20	17:48	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	6:53	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	6:53	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	6:53	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	6:53	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	6:53	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	6:53	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		155	S	%	11/07/20	6:53	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		128		%	11/07/20	6:53	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		135		%	11/07/20	6:53	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	6:53	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		47.6		%	11/07/20	6:53	AD	452010



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-5@5'	Lab Sample ID:	2011036-017A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 9:11		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	16.6	x	mg/Kg	11/07/20	3:23	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	58.9		mg/Kg	11/07/20	3:23	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		84.0		%	11/07/20	3:23	SN	451988

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	7:22	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	7:22	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	7:22	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	7:22	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	7:22	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	7:22	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		148		%	11/07/20	7:22	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		116		%	11/07/20	7:22	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		120		%	11/07/20	7:22	AD	452010

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	7:22	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		50.4		%	11/07/20	7:22	AD	452010



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-5@10'	Lab Sample ID:	2011036-018A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 9:14		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	8.74	x	mg/Kg	11/07/20	3:46	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	17.2		mg/Kg	11/07/20	3:46	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		73.1		%	11/07/20	3:46	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	7:51	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	7:51	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	7:51	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	7:51	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	7:51	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	7:51	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		156	S	%	11/07/20	7:51	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		117		%	11/07/20	7:51	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		119		%	11/07/20	7:51	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	7:51	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		49.9		%	11/07/20	7:51	AD	452010



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-36-10-E@5'	Lab Sample ID:	2011036-019A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 11:14		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	8.5	20	96.5	x	mg/Kg	11/07/20	18:11	SN	451988
TPH as Motor Oil (SG)	SW8015B	10	32	100	387		mg/Kg	11/07/20	18:11	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		76.1		%	11/07/20	18:11	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	8:20	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	8:20	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	8:20	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	8:20	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	8:20	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	8:20	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		165	S	%	11/07/20	8:20	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		124		%	11/07/20	8:20	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		139		%	11/07/20	8:20	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	8:20	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		41.6	S	%	11/07/20	8:20	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-36-10-E@10'	Lab Sample ID:	2011036-020A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 11:18		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	19.4	x	mg/Kg	11/07/20	4:33	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	61.1		mg/Kg	11/07/20	4:33	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		71.1		%	11/07/20	4:33	SN	451988

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	8:50	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	8:50	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	8:50	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	8:50	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	8:50	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	8:50	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		153	S	%	11/07/20	8:50	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		113		%	11/07/20	8:50	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		114		%	11/07/20	8:50	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	8:50	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		52.8		%	11/07/20	8:50	AD	452010



MB Summary Report

Work Order:	2011036	Prep Method:	3546_TPHSG	Prep Date:	11/05/20	Prep Batch:	1126810
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/6/2020	Analytical Batch:	451988
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.85	2.0	0.895	
TPH as Motor Oil (SG)	3.2	10	ND	
Pentacosane (S)			93.5	

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126872
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	1.6	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
TBA	12	50	14	
Diisopropyl ether	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
Ethyl tert-Butyl ether	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethylene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	



MB Summary Report

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126872
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethylbenzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		
o-Xylene	1.7	10	ND		
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	1.6		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	ND		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	ND		
Naphthalene	1.7	10	5.7		
1,2,3-Trichlorobenzene	1.7	10	1.7		
2-Butanone	2.3	10	ND		
4-Methyl-2-Pentanone (MIBK)	2.0	50	ND		
Hexachloroethane	5.0	10	ND		
1,4-Dioxane	100	200	ND		
2-Hexanone	5.0	20	ND		
Acetone	8.2	20	ND		
(S) Dibromofluoromethane			132		



MB Summary Report

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126872
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
(S) Toluene-d8			115	
(S) 4-Bromofluorobenzene			110	

Work Order:	2011036	Prep Method:	5035GRO	Prep Date:	11/06/20	Prep Batch:	1126873
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	43	100	43	
(S) 4-Bromofluorobenzene			56.2	



MB Summary Report

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126889
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	ND	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
TBA	12	50	ND	
Diisopropyl ether	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
Ethyl tert-Butyl ether	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethylene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	
Toluene	1.8	10	ND	
Tetrachloroethylene	1.7	10	ND	
trans-1,3-Dichloropropene	1.6	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.9	10	ND	
1,3-Dichloropropane	1.8	10	ND	
1,2-Dibromoethane	1.8	10	ND	
Chlorobenzene	1.8	10	ND	
Ethylbenzene	1.7	10	ND	
1,1,1,2-Tetrachloroethane	1.9	10	ND	
m,p-Xylene	3.2	10	ND	
o-Xylene	1.7	10	ND	



MB Summary Report

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126889
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	2.3		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	1.8		
1,2,4-Trimethylbenzene	1.4	10	2.3		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	3.1		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	1.6		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	7.5		
Naphthalene	1.7	10	5.3		
1,2,3-Trichlorobenzene	1.7	10	1.7		
2-Butanone	2.3	10	3.7		
4-Methyl-2-Pentanone (MIBK)	2.0	50	5.2		
Hexachloroethane	5.0	10	ND		
1,4-Dioxane	100	200	ND		
2-Hexanone	5.0	20	ND		
Acetone	8.2	20	ND		
(S) Dibromofluoromethane			137		
(S) Toluene-d8			118		
(S) 4-Bromofluorobenzene			112		



MB Summary Report

Work Order:	2011036	Prep Method:	5035GRO	Prep Date:	11/06/20	Prep Batch:	1126890
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Gasoline	43	100	ND		
(S) 4-Bromofluorobenzene			67.1		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011036	Prep Method:	3546_TPHSG	Prep Date:	11/05/20	Prep Batch:	1126810
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/6/2020	Analytical Batch:	451988
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.85	2.0	0.895	25.0	73.5	79.0	6.82	40 - 110	30	
Pentacosane (S)			ND	200	106	105		40 - 129		

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126872
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	1.6	50.0	82.2	85.7	4.29	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	90.5	95.5	5.59	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	94.3	97.8	3.75	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	96.2	104	7.41	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	92.3	98.0	6.10	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	95.8	98.5		59.8 - 148		
(S) Toluene-d8				50.0	96.1	102		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	90.1	100		55.8 - 141		

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126872
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0		50.0	93.3	98.1	5.22	70 - 130	30	
Benzene	2.2	10		50.0	90.5	95.5	5.59	66.5 - 135	30	
Ethylbenzene	1.65	10.0		50.0	96.7	102	5.23	70 - 130	30	
Toluene	1.82	10		50.0	96.2	104	7.41	56.8 - 134	30	
m,p-Xylene	3.16	10.0		100	102	108	5.71	70 - 130	30	
o-Xylene	1.73	10.0		50.0	89.3	90.8	1.78	70 - 130	30	
(S) Dibromofluoromethane				50.0	95.8	98.5		59.8 - 148		
(S) Toluene-d8				50.0	96.1	102		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	90.1	100		55.8 - 141		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011036	Prep Method:	5035GRO	Prep Date:	11/06/20	Prep Batch:	1126873
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	43	1000	86.5	87.1	0.691	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	84.7	81.0		43.9 - 127		

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126889
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/7/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0	ND	50.0	101	102	0.592	70 - 130	30	
Benzene	2.2	10	ND	50.0	98.1	101	2.41	66.5 - 135	30	
Ethylbenzene	1.65	10.0	ND	50.0	104	106	2.10	70 - 130	30	
Toluene	1.82	10	ND	50.0	106	106	0.188	56.8 - 134	30	
m,p-Xylene	3.16	10.0	ND	100	109	111	1.82	70 - 130	30	
o-Xylene	1.73	10.0	ND	50.0	94.2	96.8	2.72	70 - 130	30	
(S) Dibromofluoromethane				50.0	99.1	102		59.8 - 148		
(S) Toluene-d8				50.0	101	104		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	99.2	104		55.8 - 141		

Work Order:	2011036	Prep Method:	5035GRO	Prep Date:	11/06/20	Prep Batch:	1126890
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/7/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	85.0	83.7	1.54	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	80.7	84.9		43.9 - 127		



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011036	Prep Method:	3546_TPHSG	Prep Date:	11/05/20	Prep Batch:	1126810
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/7/2020	Analytical Batch:	451988
Spiked Sample:	2011036-015A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.850	2.00	17.8	25.0	193	178	6.08	40 - 110	30	S
Pentacosane (S)				200	91.7	92.7		40 - 129		

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126872
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Spiked Sample:	2011036-008A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.0020	0.010	ND	0.05	98.7	99.3	0.605	55 - 125	30	
Benzene	0.0022	0.010	ND	0.05	108	110	2.02	55 - 125	30	
Trichloroethylene	0.0018	0.010	ND	0.05	109	112	3.31	55 - 125	30	
Toluene	0.0018	0.010	ND	0.05	110	111	1.09	55 - 125	30	
Chlorobenzene	0.0018	0.010	ND	0.05	105	105	0.381	55 - 125	30	
(S) Dibromofluoromethane				50	115	114		59.8 - 148		
(S) Toluene-d8				50	106	106		55.2 - 133		
(S) 4-Bromofluorobenzene				50	102	104		55.8 - 141		

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126889
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/7/2020	Analytical Batch:	452010
Spiked Sample:	2011036-012A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.0020	0.010	ND	0.05	102	101	1.38	55 - 125	30	
Benzene	0.0022	0.010	ND	0.05	114	110	3.21	55 - 125	30	
Trichloroethylene	0.0018	0.010	ND	0.05	107	104	2.09	55 - 125	30	
Toluene	0.0018	0.010	ND	0.05	105	106	0.946	55 - 125	30	
Chlorobenzene	0.0018	0.010	ND	0.05	101	99.6	1.40	55 - 125	30	
(S) Dibromofluoromethane				50	119	115		59.8 - 148		
(S) Toluene-d8				50	101	101		55.2 - 133		
(S) 4-Bromofluorobenzene				50	97.7	98.3		55.8 - 141		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 11/4/2020 1:15:00PM

Project Name: Brindle Gate

Received By: Lorna Imbat

Work Order No.: 2011036

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Yes Temperature: 2.0 °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: n/a pH Adjusted by: n/a

Comments:

Sample -10A labelled S-TF-11 @ 5' VS COC S-TF-11 @ 10' @ 8:26AM



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/9/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/4/2020
Time Received: 1:15 pm

Comments:

Work Order # : 2011036

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011036-001A	S-TF-1@5'	11/03/20 7:36	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
Sample Note:	MBTEX for 8260							
2011036-002A	S-TF-1@10'	11/03/20 7:40	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-003A	S-TF-4@5'	11/03/20 7:45	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-004A	S-TF-4@10'	11/03/20 7:49	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-005A	S-TF-7@5'	11/03/20 7:56	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-006A	S-TF-7@10'	11/03/20 8:00	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-007A	S-TF-10@5'	11/03/20 8:11	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-008A	S-TF-10@10'	11/03/20 8:15	Soil	05/02/21			TPHDOSG_S_8015B	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/9/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/4/2020
Time Received: 1:15 pm

Comments:

Work Order # : 2011036

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011036-009A	S-TF-11@5'	11/03/20 8:25	Soil	05/02/21			VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-010A	S-TF-11@10'	11/03/20 8:26	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-011A	S-TF-12@5'	11/03/20 8:33	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-012A	S-TF-12@10'	11/03/20 8:38	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-013A	S-TF-8@5'	11/03/20 8:58	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-014A	S-TF-8@10'	11/03/20 9:01	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-015A	S-TF-9@5'	11/03/20 9:06	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-016A	S-TF-9@10'	11/03/20 9:08	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/9/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/4/2020
Time Received: 1:15 pm

Comments:

Work Order # : 2011036

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011036-017A	S-TF-5@5'	11/03/20 9:11	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-018A	S-TF-5@10'	11/03/20 9:14	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-019A	S-36-10-E@5'	11/03/20 11:14	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-020A	S-36-10-E@10'	11/03/20 11:18	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	



CHAIN OF CUSTODY RECORD

2011036

8015

PROJECT NUMBER 3359.210.001		PROJECT NAME Brindle Gate																			REMARKS REQUIRED DETECTION LIMITS		
SAMPLED BY: (SIGNATURE/PRINT) Taunce Werts																							
PROJECT MANAGER: (SIGNATURE/PRINT) Brooke Spruit																							
ROUTING E-MAIL Bspruit, twerts, Smunger@engeo.com																							
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TPH-g	BTEX	MIBF	TPH-d/mc w/ St. cleanup													
S-TF-1 @ 5'	11/3/20	07:30	Soil	1	sieve	N/A	X	X	X	X												-001A	
↓ @ 10'		07:40					X	X	X	X												-002A	
S-TF-4 @ 5'		07:45					X	X	X	X												-003A	
↓ @ 10'		07:49					X	X	X	X												-004A	
S-TF-7 @ 5'		07:56					X	X	X	X												-005A	
↓ @ 10'		08:08					X	X	X	X												-006A	
S-TF-10 @ 5'		08:11					X	X	X	X												-007A	
↓ @ 10'		08:15					X	X	X	X												-008A	
S-TF-11 @ 5'		08:25					X	X	X	X												-009A	
↓ @ 10'		08:26					X	X	X	X												-010A	
S-TF-12 @ 5'		08:33					X	X	X	X												-011A	
↓ @ 10'		08:38					X	X	X	X												-012A	
S-TF-8 @ 5'		08:58					X	X	X	X												-013A	
↓ @ 10'		09:01					X	X	X	X												-014A	
S-TF-9 @ 5'		09:06					X	X	X	X												-015A	
↓ @ 10'		09:08					X	X	X	X												-016A	
S-TF-5 @ 5'		09:11					X	X	X	X												-017A	
↓ @ 10'		09:14					X	X	X	X												-018A	
S-30-10-E @ 5'		11:14					X	X	X	X												-019A	
↓ @ 10'		11:18					X	X	X	X												-020A	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)	
<i>[Signature]</i>		11/4/20 07:00		<i>Bowllan</i>		<i>Bowllan</i>		11/4 12:31		<i>J-L-D. Imbat</i>												131	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS															



2010 CROW CANYON PLACE SUITE 250
 SAN RAMON, CALIFORNIA 94583
 (925) 866-9000 FAX (888) 279-2698
 WWW.ENGEO.COM

pg 1 of
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FC temp 2 #1



Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: Brindle Gate

Work Order No.: 2011036

Dear Brooke Spruit:

Torrent Laboratory, Inc. received 20 sample(s) on November 04, 2020 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Kathie Evans
Project Manager

November 09, 2020

Date



Date: 11/9/2020

Client: Engeo (San Ramon)

Project: Brindle Gate

Work Order: 2011036

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

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Analytical Comments for method 8015B, 2011036-015A MS/MSD, QC Preparation Batch ID 1126810, Note: The % recoveries for TPH Diesel are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.



Sample Result Summary

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date Received: 11/04/20

Date Reported: 11/09/20

S-TF-1@5' 2011036-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	10.5	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	17.2	mg/Kg

S-TF-1@10' 2011036-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.91	mg/Kg

S-TF-4@5' 2011036-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	9.34	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	16.4	mg/Kg

S-TF-4@10' 2011036-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.87	mg/Kg

S-TF-7@5' 2011036-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	4	3.4	8.0	65.2	mg/Kg
TPH as Motor Oil (SG)	SW8015B	4	13	40	184	mg/Kg

S-TF-7@10' 2011036-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	20	17	40	192	mg/Kg
TPH as Motor Oil (SG)	SW8015B	20	64	200	277	mg/Kg

S-TF-10@5' 2011036-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	3	2.6	6.0	53.5	mg/Kg
TPH as Motor Oil (SG)	SW8015B	3	9.5	30	138	mg/Kg

S-TF-10@5' 2011036-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	3	2.6	6.0	66.2	mg/Kg
TPH as Motor Oil (SG)	SW8015B	3	9.5	30	92.3	mg/Kg



Sample Result Summary

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date Received: 11/04/20

Date Reported: 11/09/20

S-TF-11@5' 2011036-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	8.5	20	99.9	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	32	100	291	mg/Kg

S-TF-11@10' 2011036-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	8.5	20	177	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	32	100	202	mg/Kg

S-TF-12@5' 2011036-011

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	10.2	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	18.9	mg/Kg

S-TF-12@10' 2011036-012

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	10.2	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	18.9	mg/Kg

All compounds were non-detectable for this sample.

S-TF-8@5' 2011036-013

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	8.5	20	109	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	32	100	286	mg/Kg

S-TF-8@10' 2011036-014

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	8.5	20	176	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	32	100	269	mg/Kg

S-TF-9@5' 2011036-015

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	17.8	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	54.3	mg/Kg

S-TF-9@10' 2011036-016

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	5	4.3	10	85.4	mg/Kg
TPH as Motor Oil (SG)	SW8015B	5	16	50	135	mg/Kg



Sample Result Summary

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date Received: 11/04/20

Date Reported: 11/09/20

S-TF-5@5' 2011036-017

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	16.6	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	58.9	mg/Kg

S-TF-5@10' 2011036-018

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	8.74	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	17.2	mg/Kg

S-36-10-E@5' 2011036-019

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	8.5	20	96.5	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	32	100	387	mg/Kg

S-36-10-E@10' 2011036-020

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	19.4	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	61.1	mg/Kg



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-1@5'	Lab Sample ID:	2011036-001A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 7:36		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	10.5	x	mg/Kg	11/06/20	20:23	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	17.2		mg/Kg	11/06/20	20:23	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		80.3		%	11/06/20	20:23	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	12:27	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	12:27	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	12:27	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	12:27	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	12:27	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	12:27	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		132		%	11/06/20	12:27	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	11/06/20	12:27	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		114		%	11/06/20	12:27	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	12:27	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		62.1		%	11/06/20	12:27	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-1@10'	Lab Sample ID:	2011036-002A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 7:40		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.91	x	mg/Kg	11/06/20	20:46	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/06/20	20:46	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		80.0		%	11/06/20	20:46	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	14:23	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	14:23	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	14:23	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	14:23	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	14:23	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	14:23	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		147		%	11/06/20	14:23	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		118		%	11/06/20	14:23	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		118		%	11/06/20	14:23	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	14:23	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		61.6		%	11/06/20	14:23	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-4@5'	Lab Sample ID:	2011036-003A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 7:45		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	9.34	x	mg/Kg	11/06/20	21:10	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	16.4		mg/Kg	11/06/20	21:10	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		76.2		%	11/06/20	21:10	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	14:51	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	14:51	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	14:51	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	14:51	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	14:51	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	14:51	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		141		%	11/06/20	14:51	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	11/06/20	14:51	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		113		%	11/06/20	14:51	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	14:51	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		61.9		%	11/06/20	14:51	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-4@10'	Lab Sample ID:	2011036-004A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 7:49		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.87	x	mg/Kg	11/06/20	21:33	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/06/20	21:33	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		77.0		%	11/06/20	21:33	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	15:20	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	15:20	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	15:20	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	15:20	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	15:20	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	15:20	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		144		%	11/06/20	15:20	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		117		%	11/06/20	15:20	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		113		%	11/06/20	15:20	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	15:20	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		59.5		%	11/06/20	15:20	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-7@5'	Lab Sample ID:	2011036-005A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 7:56		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	4	3.4	8.0	65.2	x	mg/Kg	11/07/20	14:40	SN	451988
TPH as Motor Oil (SG)	SW8015B	4	13	40	184		mg/Kg	11/07/20	14:40	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		77.4		%	11/07/20	14:40	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	15:49	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	15:49	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	15:49	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	15:49	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	15:49	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	15:49	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		148		%	11/06/20	15:49	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		121		%	11/06/20	15:49	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		122		%	11/06/20	15:49	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	15:49	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		52.0		%	11/06/20	15:49	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-7@10'	Lab Sample ID:	2011036-006A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:00		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	20	17	40	192	x	mg/Kg	11/07/20	15:04	SN	451988
TPH as Motor Oil (SG)	SW8015B	20	64	200	277		mg/Kg	11/07/20	15:04	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		0.000	D	%	11/07/20	15:04	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	16:17	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	16:17	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	16:17	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	16:17	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	16:17	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	16:17	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		150	S	%	11/06/20	16:17	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		124		%	11/06/20	16:17	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		121		%	11/06/20	16:17	AD	452004

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	16:17	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		47.0		%	11/06/20	16:17	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-10@5'	Lab Sample ID:	2011036-007A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:11		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	3	2.6	6.0	53.5	x	mg/Kg	11/07/20	15:27	SN	451988
TPH as Motor Oil (SG)	SW8015B	3	9.5	30	138		mg/Kg	11/07/20	15:27	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		70.2		%	11/07/20	15:27	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	16:46	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	16:46	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	16:46	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	16:46	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	16:46	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	16:46	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		131		%	11/06/20	16:46	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		125		%	11/06/20	16:46	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		121		%	11/06/20	16:46	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	16:46	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		46.0		%	11/06/20	16:46	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-10@5'	Lab Sample ID:	2011036-008A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:15		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	3	2.6	6.0	66.2	x	mg/Kg	11/07/20	15:51	SN	451988
TPH as Motor Oil (SG)	SW8015B	3	9.5	30	92.3		mg/Kg	11/07/20	15:51	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		68.6		%	11/07/20	15:51	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126872	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/06/20	17:15	AD	452004
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/06/20	17:15	AD	452004
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/06/20	17:15	AD	452004
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	17:15	AD	452004
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/06/20	17:15	AD	452004
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/06/20	17:15	AD	452004
(S) Dibromofluoromethane	SW8260B		59.8 - 148		141		%	11/06/20	17:15	AD	452004
(S) Toluene-d8	SW8260B		55.2 - 133		116		%	11/06/20	17:15	AD	452004
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		110		%	11/06/20	17:15	AD	452004

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	9:34:00AM
Prep Batch ID: 1126873	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/06/20	17:15	AD	452004
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		45.2		%	11/06/20	17:15	AD	452004



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-11@5'	Lab Sample ID:	2011036-009A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:25		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	8.5	20	99.9	x	mg/Kg	11/07/20	16:14	SN	451988
TPH as Motor Oil (SG)	SW8015B	10	32	100	291		mg/Kg	11/07/20	16:14	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		86.0		%	11/07/20	16:14	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	3:29	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	3:29	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	3:29	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	3:29	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	3:29	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	3:29	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		159	S	%	11/07/20	3:29	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	11/07/20	3:29	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		131		%	11/07/20	3:29	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	3:29	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		32.9	S	%	11/07/20	3:29	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-11@10'	Lab Sample ID:	2011036-010A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:26		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	8.5	20	177	x	mg/Kg	11/07/20	16:37	SN	451988
TPH as Motor Oil (SG)	SW8015B	10	32	100	202		mg/Kg	11/07/20	16:37	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		73.4		%	11/07/20	16:37	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	3:58	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	3:58	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	3:58	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	3:58	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	3:58	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	3:58	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		160	S	%	11/07/20	3:58	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		121		%	11/07/20	3:58	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		130		%	11/07/20	3:58	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	3:58	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		34.5	S	%	11/07/20	3:58	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-12@5'	Lab Sample ID:	2011036-011A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:33		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	10.2	x	mg/Kg	11/07/20	1:03	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	18.9		mg/Kg	11/07/20	1:03	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		73.6		%	11/07/20	1:03	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	4:27	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	4:27	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	4:27	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	4:27	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	4:27	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	4:27	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		158	S	%	11/07/20	4:27	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		114		%	11/07/20	4:27	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		116		%	11/07/20	4:27	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	4:27	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		45.6		%	11/07/20	4:27	AD	452010



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-12@10'	Lab Sample ID:	2011036-012A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:38		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/07/20	1:26	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/07/20	1:26	SN	451988
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		64.2		%	11/07/20	1:26	SN	451988

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	4:57	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	4:57	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	4:57	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	4:57	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	4:57	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	4:57	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		141		%	11/07/20	4:57	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		105		%	11/07/20	4:57	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		104		%	11/07/20	4:57	AD	452010

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	4:57	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		51.3		%	11/07/20	4:57	AD	452010



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-8@5'	Lab Sample ID:	2011036-013A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 8:58		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	8.5	20	109	x	mg/Kg	11/07/20	17:01	SN	451988
TPH as Motor Oil (SG)	SW8015B	10	32	100	286		mg/Kg	11/07/20	17:01	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		87.0		%	11/07/20	17:01	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	5:26	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	5:26	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	5:26	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	5:26	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	5:26	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	5:26	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		159	S	%	11/07/20	5:26	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		118		%	11/07/20	5:26	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		125		%	11/07/20	5:26	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	5:26	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		43.8	S	%	11/07/20	5:26	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-8@10'	Lab Sample ID:	2011036-014A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 9:01		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	8.5	20	176	x	mg/Kg	11/07/20	17:24	SN	451988
TPH as Motor Oil (SG)	SW8015B	10	32	100	269		mg/Kg	11/07/20	17:24	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		75.0		%	11/07/20	17:24	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	5:55	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	5:55	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	5:55	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	5:55	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	5:55	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	5:55	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		159	S	%	11/07/20	5:55	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		128		%	11/07/20	5:55	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		125		%	11/07/20	5:55	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	5:55	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		37.0	S	%	11/07/20	5:55	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-9@5'	Lab Sample ID:	2011036-015A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 9:06		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	17.8	x	mg/Kg	11/07/20	2:36	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	54.3		mg/Kg	11/07/20	2:36	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		78.1		%	11/07/20	2:36	SN	451988

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	6:24	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	6:24	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	6:24	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	6:24	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	6:24	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	6:24	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		168	S	%	11/07/20	6:24	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	11/07/20	6:24	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		129		%	11/07/20	6:24	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	6:24	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		37.2	S	%	11/07/20	6:24	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-9@10'	Lab Sample ID:	2011036-016A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 9:08		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	5	4.3	10	85.4	x	mg/Kg	11/07/20	17:48	SN	451988
TPH as Motor Oil (SG)	SW8015B	5	16	50	135		mg/Kg	11/07/20	17:48	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		77.5		%	11/07/20	17:48	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	6:53	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	6:53	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	6:53	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	6:53	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	6:53	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	6:53	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		155	S	%	11/07/20	6:53	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		128		%	11/07/20	6:53	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		135		%	11/07/20	6:53	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	6:53	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		47.6		%	11/07/20	6:53	AD	452010



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-5@5'	Lab Sample ID:	2011036-017A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 9:11		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	16.6	x	mg/Kg	11/07/20	3:23	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	58.9		mg/Kg	11/07/20	3:23	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		84.0		%	11/07/20	3:23	SN	451988

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	7:22	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	7:22	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	7:22	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	7:22	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	7:22	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	7:22	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		148		%	11/07/20	7:22	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		116		%	11/07/20	7:22	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		120		%	11/07/20	7:22	AD	452010

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	7:22	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		50.4		%	11/07/20	7:22	AD	452010



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-TF-5@10'	Lab Sample ID:	2011036-018A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 9:14		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	8.74	x	mg/Kg	11/07/20	3:46	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	17.2		mg/Kg	11/07/20	3:46	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		73.1		%	11/07/20	3:46	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	7:51	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	7:51	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	7:51	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	7:51	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	7:51	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	7:51	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		156	S	%	11/07/20	7:51	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		117		%	11/07/20	7:51	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		119		%	11/07/20	7:51	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	7:51	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		49.9		%	11/07/20	7:51	AD	452010



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-36-10-E@5'	Lab Sample ID:	2011036-019A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 11:14		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	8.5	20	96.5	x	mg/Kg	11/07/20	18:11	SN	451988
TPH as Motor Oil (SG)	SW8015B	10	32	100	387		mg/Kg	11/07/20	18:11	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		76.1		%	11/07/20	18:11	SN	451988

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	8:20	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	8:20	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	8:20	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	8:20	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	8:20	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	8:20	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		165	S	%	11/07/20	8:20	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		124		%	11/07/20	8:20	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		139		%	11/07/20	8:20	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	8:20	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		41.6	S	%	11/07/20	8:20	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-36-10-E@10'	Lab Sample ID:	2011036-020A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 11:18		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:31:00PM
Prep Batch ID: 1126810	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	19.4	x	mg/Kg	11/07/20	4:33	SN	451988
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	61.1		mg/Kg	11/07/20	4:33	SN	451988
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		71.1		%	11/07/20	4:33	SN	451988

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	8:50	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	8:50	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	8:50	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	8:50	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	8:50	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	8:50	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		153	S	%	11/07/20	8:50	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		113		%	11/07/20	8:50	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		114		%	11/07/20	8:50	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/07/20	8:50	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		52.8		%	11/07/20	8:50	AD	452010



MB Summary Report

Work Order:	2011036	Prep Method:	3546_TPHSG	Prep Date:	11/05/20	Prep Batch:	1126810
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/6/2020	Analytical Batch:	451988
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.85	2.0	0.895	
TPH as Motor Oil (SG)	3.2	10	ND	
Pentacosane (S)			93.5	

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126872
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	1.6	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
TBA	12	50	14	
Diisopropyl ether	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
Ethyl tert-Butyl ether	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethylene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	



MB Summary Report

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126872
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethylbenzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		
o-Xylene	1.7	10	ND		
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	1.6		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	ND		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	ND		
Naphthalene	1.7	10	5.7		
1,2,3-Trichlorobenzene	1.7	10	1.7		
2-Butanone	2.3	10	ND		
4-Methyl-2-Pentanone (MIBK)	2.0	50	ND		
Hexachloroethane	5.0	10	ND		
1,4-Dioxane	100	200	ND		
2-Hexanone	5.0	20	ND		
Acetone	8.2	20	ND		
(S) Dibromofluoromethane			132		



MB Summary Report

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126872
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
(S) Toluene-d8			115	
(S) 4-Bromofluorobenzene			110	

Work Order:	2011036	Prep Method:	5035GRO	Prep Date:	11/06/20	Prep Batch:	1126873
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	43	100	43	
(S) 4-Bromofluorobenzene			56.2	



MB Summary Report

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126889
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	ND	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
TBA	12	50	ND	
Diisopropyl ether	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
Ethyl tert-Butyl ether	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethylene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	
Toluene	1.8	10	ND	
Tetrachloroethylene	1.7	10	ND	
trans-1,3-Dichloropropene	1.6	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.9	10	ND	
1,3-Dichloropropane	1.8	10	ND	
1,2-Dibromoethane	1.8	10	ND	
Chlorobenzene	1.8	10	ND	
Ethylbenzene	1.7	10	ND	
1,1,1,2-Tetrachloroethane	1.9	10	ND	
m,p-Xylene	3.2	10	ND	
o-Xylene	1.7	10	ND	



MB Summary Report

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126889
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	2.3		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	1.8		
1,2,4-Trimethylbenzene	1.4	10	2.3		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	3.1		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	1.6		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	7.5		
Naphthalene	1.7	10	5.3		
1,2,3-Trichlorobenzene	1.7	10	1.7		
2-Butanone	2.3	10	3.7		
4-Methyl-2-Pentanone (MIBK)	2.0	50	5.2		
Hexachloroethane	5.0	10	ND		
1,4-Dioxane	100	200	ND		
2-Hexanone	5.0	20	ND		
Acetone	8.2	20	ND		
(S) Dibromofluoromethane			137		
(S) Toluene-d8			118		
(S) 4-Bromofluorobenzene			112		



MB Summary Report

Work Order:	2011036	Prep Method:	5035GRO	Prep Date:	11/06/20	Prep Batch:	1126890
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Gasoline	43	100	ND		
(S) 4-Bromofluorobenzene			67.1		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011036	Prep Method:	3546_TPHSG	Prep Date:	11/05/20	Prep Batch:	1126810
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/6/2020	Analytical Batch:	451988
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.85	2.0	0.895	25.0	73.5	79.0	6.82	40 - 110	30	
Pentacosane (S)			ND	200	106	105		40 - 129		

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126872
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	1.6	50.0	82.2	85.7	4.29	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	90.5	95.5	5.59	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	94.3	97.8	3.75	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	96.2	104	7.41	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	92.3	98.0	6.10	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	95.8	98.5		59.8 - 148		
(S) Toluene-d8				50.0	96.1	102		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	90.1	100		55.8 - 141		

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126872
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0		50.0	93.3	98.1	5.22	70 - 130	30	
Benzene	2.2	10		50.0	90.5	95.5	5.59	66.5 - 135	30	
Ethylbenzene	1.65	10.0		50.0	96.7	102	5.23	70 - 130	30	
Toluene	1.82	10		50.0	96.2	104	7.41	56.8 - 134	30	
m,p-Xylene	3.16	10.0		100	102	108	5.71	70 - 130	30	
o-Xylene	1.73	10.0		50.0	89.3	90.8	1.78	70 - 130	30	
(S) Dibromofluoromethane				50.0	95.8	98.5		59.8 - 148		
(S) Toluene-d8				50.0	96.1	102		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	90.1	100		55.8 - 141		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011036	Prep Method:	5035GRO	Prep Date:	11/06/20	Prep Batch:	1126873
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	43	1000	86.5	87.1	0.691	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	84.7	81.0		43.9 - 127		

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126889
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/7/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0	ND	50.0	101	102	0.592	70 - 130	30	
Benzene	2.2	10	ND	50.0	98.1	101	2.41	66.5 - 135	30	
Ethylbenzene	1.65	10.0	ND	50.0	104	106	2.10	70 - 130	30	
Toluene	1.82	10	ND	50.0	106	106	0.188	56.8 - 134	30	
m,p-Xylene	3.16	10.0	ND	100	109	111	1.82	70 - 130	30	
o-Xylene	1.73	10.0	ND	50.0	94.2	96.8	2.72	70 - 130	30	
(S) Dibromofluoromethane				50.0	99.1	102		59.8 - 148		
(S) Toluene-d8				50.0	101	104		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	99.2	104		55.8 - 141		

Work Order:	2011036	Prep Method:	5035GRO	Prep Date:	11/06/20	Prep Batch:	1126890
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/7/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	85.0	83.7	1.54	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	80.7	84.9		43.9 - 127		



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011036	Prep Method:	3546_TPHSG	Prep Date:	11/05/20	Prep Batch:	1126810
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/7/2020	Analytical Batch:	451988
Spiked Sample:	2011036-015A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.850	2.00	17.8	25.0	193	178	6.08	40 - 110	30	S
Pentacosane (S)				200	91.7	92.7		40 - 129		

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126872
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452004
Spiked Sample:	2011036-008A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.0020	0.010	ND	0.05	98.7	99.3	0.605	55 - 125	30	
Benzene	0.0022	0.010	ND	0.05	108	110	2.02	55 - 125	30	
Trichloroethylene	0.0018	0.010	ND	0.05	109	112	3.31	55 - 125	30	
Toluene	0.0018	0.010	ND	0.05	110	111	1.09	55 - 125	30	
Chlorobenzene	0.0018	0.010	ND	0.05	105	105	0.381	55 - 125	30	
(S) Dibromofluoromethane				50	115	114		59.8 - 148		
(S) Toluene-d8				50	106	106		55.2 - 133		
(S) 4-Bromofluorobenzene				50	102	104		55.8 - 141		

Work Order:	2011036	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126889
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/7/2020	Analytical Batch:	452010
Spiked Sample:	2011036-012A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.0020	0.010	ND	0.05	102	101	1.38	55 - 125	30	
Benzene	0.0022	0.010	ND	0.05	114	110	3.21	55 - 125	30	
Trichloroethylene	0.0018	0.010	ND	0.05	107	104	2.09	55 - 125	30	
Toluene	0.0018	0.010	ND	0.05	105	106	0.946	55 - 125	30	
Chlorobenzene	0.0018	0.010	ND	0.05	101	99.6	1.40	55 - 125	30	
(S) Dibromofluoromethane				50	119	115		59.8 - 148		
(S) Toluene-d8				50	101	101		55.2 - 133		
(S) 4-Bromofluorobenzene				50	97.7	98.3		55.8 - 141		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 11/4/2020 1:15:00PM

Project Name: Brindle Gate

Received By: Lorna Imbat

Work Order No.: 2011036

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Yes Temperature: 2.0 °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: n/a pH Adjusted by: n/a

Comments:

Sample -10A labelled S-TF-11 @ 5' VS COC S-TF-11 @ 10' @ 8:26AM



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/9/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/4/2020
Time Received: 1:15 pm

Comments:

Work Order # : 2011036

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011036-001A	S-TF-1@5'	11/03/20 7:36	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
Sample Note:	MBTEX for 8260							
2011036-002A	S-TF-1@10'	11/03/20 7:40	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-003A	S-TF-4@5'	11/03/20 7:45	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-004A	S-TF-4@10'	11/03/20 7:49	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-005A	S-TF-7@5'	11/03/20 7:56	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-006A	S-TF-7@10'	11/03/20 8:00	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-007A	S-TF-10@5'	11/03/20 8:11	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-008A	S-TF-10@5'	11/03/20 8:15	Soil	05/02/21			TPHDOSG_S_8015B	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/9/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/4/2020
Time Received: 1:15 pm

Comments:

Work Order # : 2011036

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011036-009A	S-TF-11@5'	11/03/20 8:25	Soil	05/02/21			VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-010A	S-TF-11@10'	11/03/20 8:26	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-011A	S-TF-12@5'	11/03/20 8:33	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-012A	S-TF-12@10'	11/03/20 8:38	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-013A	S-TF-8@5'	11/03/20 8:58	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-014A	S-TF-8@10'	11/03/20 9:01	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-015A	S-TF-9@5'	11/03/20 9:06	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-016A	S-TF-9@10'	11/03/20 9:08	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/9/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/4/2020
Time Received: 1:15 pm

Comments:

Work Order # : 2011036

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011036-017A	S-TF-5@5'	11/03/20 9:11	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-018A	S-TF-5@10'	11/03/20 9:14	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011036-019A	S-36-10-E@5'	11/03/20 11:14	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011036-020A	S-36-10-E@10'	11/03/20 11:18	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	



CHAIN OF CUSTODY RECORD

8015

2011036

PROJECT NUMBER 3359.210.001		PROJECT NAME Brindle Gate												REMARKS REQUIRED DETECTION LIMITS			
SAMPLED BY: (SIGNATURE/PRINT) Taunce Werts		PROJECT MANAGER: (SIGNATURE/PRINT) Brooke Spruit															
ROUTING E-MAIL Bspruit, twerts, Smunger@engeo.com																	
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TPH-g	BTEX	MIBF	TPH-d/mc w/ St. cleanup							
S-TF-1 @ 5'	11/3/20	07:30	Soil	1	sieve	N/A	X	X	X	X							-001A
↓ @ 10'		07:40					X	X	X	X							-002A
S-TF-4 @ 5'		07:45					X	X	X	X							-003A
↓ @ 10'		07:49					X	X	X	X							-004A
S-TF-7 @ 5'		07:56					X	X	X	X							-005A
↓ @ 10'		08:08					X	X	X	X							-006A
S-TF-10 @ 5'		08:11					X	X	X	X							-007A
↓ @ 10'		08:15					X	X	X	X							-008A
S-TF-11 @ 5'		08:25					X	X	X	X							-009A
↓ @ 10'		08:26					X	X	X	X							-010A
S-TF-12 @ 5'		08:33					X	X	X	X							-011A
↓ @ 10'		08:38					X	X	X	X							-012A
S-TF-8 @ 5'		08:58					X	X	X	X							-013A
↓ @ 10'		09:01					X	X	X	X							-014A
S-TF-9 @ 5'		09:06					X	X	X	X							-015A
↓ @ 10'		09:08					X	X	X	X							-016A
S-TF-5 @ 5'		09:11					X	X	X	X							-017A
↓ @ 10'		09:14					X	X	X	X							-018A
S-30-10-E @ 5'		11:14					X	X	X	X							-019A
↓ @ 10'		11:18					X	X	X	X							-020A
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 11/4/20 07:00		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 11/4 12:31		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>							
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE) 131							
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS									

ENGEO
INCORPORATED

2010 CROW CANYON PLACE SUITE 250
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(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

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FC temp 2 #1



Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: Brindle Gate

Work Order No.: 2011037

Dear Brooke Spruit:

Torrent Laboratory, Inc. received 8 sample(s) on November 04, 2020 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink that reads "Kathie Evans". The signature is written in a cursive style and is positioned above a horizontal line.

Kathie Evans
Project Manager

November 09, 2020

Date



Date: 11/9/2020

Client: Engeo (San Ramon)

Project: Brindle Gate

Work Order: 2011037

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Analytical Comments for method 8015B, 2011037-007A MS/MSD, QC Preparation Batch ID 1126811, Note: The % recoveries for TPH as Diesel are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.



Sample Result Summary

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date Received: 11/04/20

Date Reported: 11/09/20

S-36-10-S@5'

2011037-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.89	mg/Kg

S-36-10-S@10'

2011037-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.63	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	16.3	mg/Kg

S-36-10-N@5'

2011037-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	4.52	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	30.2	mg/Kg

S-36-10-N@10'

2011037-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	5	4.3	10	89.4	mg/Kg
TPH as Motor Oil (SG)	SW8015B	5	16	50	78.0	mg/Kg

S-36-10-W@5'

2011037-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Gasoline	8260TPH	1	0.043	0.10	0.101	mg/Kg
TPH as Diesel (SG)	SW8015B	5	4.3	10	61.1	mg/Kg
TPH as Motor Oil (SG)	SW8015B	5	16	50	260	mg/Kg

S-36-10-W@10'

2011037-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

S-36-10-C@5'

2011037-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	10	8.5	20	61.6	mg/Kg
TPH as Motor Oil (SG)	SW8015B	10	32	100	234	mg/Kg

S-36-10-C@10'

2011037-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	5.93	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	23.0	mg/Kg



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-36-10-S@5'	Lab Sample ID:	2011037-001A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 11:20		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:38:00PM
Prep Batch ID: 1126811	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.89	x	mg/Kg	11/07/20	7:39	SN	451989
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/07/20	7:39	SN	451989
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		51.5		%	11/07/20	7:39	SN	451989

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126817	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	17:54	JZ	451935
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	17:54	JZ	451935
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	17:54	JZ	451935
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	17:54	JZ	451935
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	17:54	JZ	451935
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	17:54	JZ	451935
(S) Dibromofluoromethane	SW8260B		59.8 - 148		131		%	11/05/20	17:54	JZ	451935
(S) Toluene-d8	SW8260B		55.2 - 133		116		%	11/05/20	17:54	JZ	451935
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		112		%	11/05/20	17:54	JZ	451935

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126820	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	17:54	JZ	451935
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		58.2		%	11/05/20	17:54	JZ	451935



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-36-10-S@10'	Lab Sample ID:	2011037-002A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 11:22		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:38:00PM
Prep Batch ID: 1126811	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.63	x	mg/Kg	11/07/20	8:02	SN	451989
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	16.3		mg/Kg	11/07/20	8:02	SN	451989
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		40.8		%	11/07/20	8:02	SN	451989

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126817	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	18:23	JZ	451935
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	18:23	JZ	451935
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	18:23	JZ	451935
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	18:23	JZ	451935
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	18:23	JZ	451935
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	18:23	JZ	451935
(S) Dibromofluoromethane	SW8260B		59.8 - 148		141		%	11/05/20	18:23	JZ	451935
(S) Toluene-d8	SW8260B		55.2 - 133		114		%	11/05/20	18:23	JZ	451935
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		111		%	11/05/20	18:23	JZ	451935

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126820	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	18:23	JZ	451935
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		50.9		%	11/05/20	18:23	JZ	451935



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-36-10-N@5'	Lab Sample ID:	2011037-003A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 11:33		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:38:00PM
Prep Batch ID: 1126811	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	4.52	x	mg/Kg	11/07/20	8:25	SN	451989
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	30.2		mg/Kg	11/07/20	8:25	SN	451989
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		46.5		%	11/07/20	8:25	SN	451989

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126817	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	19:50	JZ	451935
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	19:50	JZ	451935
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	19:50	JZ	451935
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	19:50	JZ	451935
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	19:50	JZ	451935
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	19:50	JZ	451935
(S) Dibromofluoromethane	SW8260B		59.8 - 148		137		%	11/05/20	19:50	JZ	451935
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	11/05/20	19:50	JZ	451935
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		113		%	11/05/20	19:50	JZ	451935

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126820	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	19:50	JZ	451935
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		64.9		%	11/05/20	19:50	JZ	451935



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-36-10-N@10'	Lab Sample ID:	2011037-004A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 11:42		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:38:00PM
Prep Batch ID: 1126811	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	5	4.3	10	89.4	x	mg/Kg	11/07/20	9:11	SN	451989
TPH as Motor Oil (SG)	SW8015B	5	16	50	78.0		mg/Kg	11/07/20	9:11	SN	451989
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		62.2		%	11/07/20	9:11	SN	451989

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126817	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	20:20	JZ	451935
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	20:20	JZ	451935
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	20:20	JZ	451935
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	20:20	JZ	451935
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	20:20	JZ	451935
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	20:20	JZ	451935
(S) Dibromofluoromethane	SW8260B		59.8 - 148		146		%	11/05/20	20:20	JZ	451935
(S) Toluene-d8	SW8260B		55.2 - 133		117		%	11/05/20	20:20	JZ	451935
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		113		%	11/05/20	20:20	JZ	451935

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126820	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	20:20	JZ	451935
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		52.6		%	11/05/20	20:20	JZ	451935



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-36-10-W@5'	Lab Sample ID:	2011037-005A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 11:56		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:38:00PM
Prep Batch ID: 1126811	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	5	4.3	10	61.1	x	mg/Kg	11/07/20	10:00	SN	451989
TPH as Motor Oil (SG)	SW8015B	5	16	50	260		mg/Kg	11/07/20	10:00	SN	451989
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		63.0		%	11/07/20	10:00	SN	451989

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126889	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/07/20	2:59	AD	452010
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/07/20	2:59	AD	452010
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/07/20	2:59	AD	452010
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	2:59	AD	452010
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/07/20	2:59	AD	452010
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/07/20	2:59	AD	452010
(S) Dibromofluoromethane	SW8260B		59.8 - 148		152	S	%	11/07/20	2:59	AD	452010
(S) Toluene-d8	SW8260B		55.2 - 133		124		%	11/07/20	2:59	AD	452010
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		128		%	11/07/20	2:59	AD	452010

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/6/20	10:36:00PM
Prep Batch ID: 1126890	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	0.101	x	mg/Kg	11/07/20	2:59	AD	452010
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		35.4	S	%	11/07/20	2:59	AD	452010

NOTE: S - Low surrogate recovery; analyzed twice with a similar result indicating a matrix effect
x - Does not match pattern of reference Gasoline standard. Hydrocarbons in the range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-36-10-W@10'	Lab Sample ID:	2011037-006A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 11:58		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:38:00PM
Prep Batch ID: 1126811	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/07/20	10:23	SN	451989
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/07/20	10:23	SN	451989
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		59.9		%	11/07/20	10:23	SN	451989

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126817	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	20:49	JZ	451935
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	20:49	JZ	451935
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	20:49	JZ	451935
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	20:49	JZ	451935
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	20:49	JZ	451935
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	20:49	JZ	451935
(S) Dibromofluoromethane	SW8260B		59.8 - 148		147		%	11/05/20	20:49	JZ	451935
(S) Toluene-d8	SW8260B		55.2 - 133		117		%	11/05/20	20:49	JZ	451935
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		112		%	11/05/20	20:49	JZ	451935

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126820	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	20:49	JZ	451935
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		62.0		%	11/05/20	20:49	JZ	451935



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-36-10-C@5'	Lab Sample ID:	2011037-007A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 12:02		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:38:00PM
Prep Batch ID: 1126811	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	10	8.5	20	61.6	x	mg/Kg	11/07/20	11:10	SN	451989
TPH as Motor Oil (SG)	SW8015B	10	32	100	234		mg/Kg	11/07/20	11:10	SN	451989
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		51.7		%	11/07/20	11:10	SN	451989

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126817	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	21:18	JZ	451935
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	21:18	JZ	451935
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	21:18	JZ	451935
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	21:18	JZ	451935
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	21:18	JZ	451935
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	21:18	JZ	451935
(S) Dibromofluoromethane	SW8260B		59.8 - 148		152	S	%	11/05/20	21:18	JZ	451935
(S) Toluene-d8	SW8260B		55.2 - 133		129		%	11/05/20	21:18	JZ	451935
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		132		%	11/05/20	21:18	JZ	451935

NOTE: S-Surrogate recoveries out of limit-high bias. Data deemed acceptable as no target analytes were observed in the sample.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126820	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	21:18	JZ	451935
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		42.0	S	%	11/05/20	21:18	JZ	451935

NOTE: Surrogate recovery was outside the control limit due to matrix interference.



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	S-36-10-C@10'	Lab Sample ID:	2011037-008A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/03/20 / 12:04		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/5/20	2:38:00PM
Prep Batch ID: 1126811	Prep Analyst:	HLEE

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	5.93	x	mg/Kg	11/07/20	12:20	SN	451989
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	23.0		mg/Kg	11/07/20	12:20	SN	451989
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		55.6		%	11/07/20	12:20	SN	451989

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126817	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/05/20	21:47	JZ	451935
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/05/20	21:47	JZ	451935
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/05/20	21:47	JZ	451935
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	21:47	JZ	451935
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/05/20	21:47	JZ	451935
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/05/20	21:47	JZ	451935
(S) Dibromofluoromethane	SW8260B		59.8 - 148		148	S	%	11/05/20	21:47	JZ	451935
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	11/05/20	21:47	JZ	451935
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		115		%	11/05/20	21:47	JZ	451935

NOTE: S-Surrogate recoveries out of limit-high bias. Data deemed acceptable as no target analytes were observed in the sample.

Prep Method: 5035GRO	Prep Batch Date/Time: 11/5/20	1:38:00PM
Prep Batch ID: 1126820	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/05/20	21:47	JZ	451935
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		58.3		%	11/05/20	21:47	JZ	451935



MB Summary Report

Work Order:	2011037	Prep Method:	3546_TPHSG	Prep Date:	11/05/20	Prep Batch:	1126811
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/7/2020	Analytical Batch:	451989
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Diesel (SG)	0.85	2.0	ND		
TPH as Motor Oil (SG)	3.2	10	ND		
Pentacosane (S)			93.6		

Work Order:	2011037	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	1.2	10	ND		
Chloromethane	1.8	10	ND		
Vinyl Chloride	2.0	10	ND		
Bromomethane	2.7	10	ND		
Chloroethane	3.0	10	ND		
Trichlorofluoromethane	2.1	10	ND		
1,1-Dichloroethene	2.0	10	ND		
Freon 113	1.9	10	ND		
Methylene Chloride	7.1	10	ND		
trans-1,2-Dichloroethene	2.1	10	ND		
MTBE	2.3	10	ND		
TBA	12	50	ND		
Diisopropyl ether	2.3	10	ND		
1,1-Dichloroethane	2.2	10	ND		
Ethyl tert-Butyl ether	2.3	10	ND		
cis-1,2-Dichloroethene	2.2	10	ND		
2,2-Dichloropropane	1.9	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	2.4	10	ND		
Carbon Tetrachloride	2.1	10	ND		
1,1,1-Trichloroethane	2.1	10	ND		
1,1-Dichloropropene	2.0	10	ND		
Benzene	2.2	10	ND		
TAME	2.3	10	ND		
1,2-Dichloroethane	2.3	10	ND		
Trichloroethylene	1.8	10	ND		
Dibromomethane	1.8	10	ND		
1,2-Dichloropropane	1.9	10	ND		
Bromodichloromethane	2.0	10	ND		
cis-1,3-Dichloropropene	1.6	10	ND		



MB Summary Report

Work Order:	2011037	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethylbenzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		
o-Xylene	1.7	10	ND		
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	ND		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	7.7		
Naphthalene	1.7	10	5.9		
1,2,3-Trichlorobenzene	1.7	10	2.0		
2-Butanone	2.3	10	ND		
(S) Dibromofluoromethane			127		
(S) Toluene-d8			115		
(S) 4-Bromofluorobenzene			110		



MB Summary Report

Work Order:	2011037	Prep Method:	5035GRO	Prep Date:	11/05/20	Prep Batch:	1126820
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	43	100	ND	
(S) 4-Bromofluorobenzene			65.6	



MB Summary Report

Work Order:	2011037	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126889
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	1.2	10	ND		
Chloromethane	1.8	10	ND		
Vinyl Chloride	2.0	10	ND		
Bromomethane	2.7	10	ND		
Chloroethane	3.0	10	ND		
Trichlorofluoromethane	2.1	10	ND		
1,1-Dichloroethene	2.0	10	ND		
Freon 113	1.9	10	ND		
Methylene Chloride	7.1	10	ND		
trans-1,2-Dichloroethene	2.1	10	ND		
MTBE	2.3	10	ND		
TBA	12	50	ND		
Diisopropyl ether	2.3	10	ND		
1,1-Dichloroethane	2.2	10	ND		
Ethyl tert-Butyl ether	2.3	10	ND		
cis-1,2-Dichloroethene	2.2	10	ND		
2,2-Dichloropropane	1.9	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	2.4	10	ND		
Carbon Tetrachloride	2.1	10	ND		
1,1,1-Trichloroethane	2.1	10	ND		
1,1-Dichloropropene	2.0	10	ND		
Benzene	2.2	10	ND		
TAME	2.3	10	ND		
1,2-Dichloroethane	2.3	10	ND		
Trichloroethylene	1.8	10	ND		
Dibromomethane	1.8	10	ND		
1,2-Dichloropropane	1.9	10	ND		
Bromodichloromethane	2.0	10	ND		
cis-1,3-Dichloropropene	1.6	10	ND		
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethylbenzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		
o-Xylene	1.7	10	ND		



MB Summary Report

Work Order:	2011037	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126889
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	2.3		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	1.8		
1,2,4-Trimethylbenzene	1.4	10	2.3		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	3.1		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	1.6		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	7.5		
Naphthalene	1.7	10	5.3		
1,2,3-Trichlorobenzene	1.7	10	1.7		
2-Butanone	2.3	10	3.7		
4-Methyl-2-Pentanone (MIBK)	2.0	50	5.2		
Hexachloroethane	5.0	10	ND		
1,4-Dioxane	100	200	ND		
2-Hexanone	5.0	20	ND		
Acetone	8.2	20	ND		
(S) Dibromofluoromethane			137		
(S) Toluene-d8			118		
(S) 4-Bromofluorobenzene			112		



MB Summary Report

Work Order:	2011037	Prep Method:	5035GRO	Prep Date:	11/06/20	Prep Batch:	1126890
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	43	100	ND	
(S) 4-Bromofluorobenzene			67.1	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011037	Prep Method:	3546_TPHSG	Prep Date:	11/05/20	Prep Batch:	1126811
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/7/2020	Analytical Batch:	451989
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	1.7	4.0	ND	25.0	79.2	76.2	3.60	40 - 110	30	
Pentacosane (S)			ND	200	63.5	60.8		40 - 129		

Work Order:	2011037	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	83.4	101	18.7	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	88.2	109	20.7	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	89.9	111	21.3	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	91.6	113	20.7	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	89.1	108	19.3	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	106	117		59.8 - 148		
(S) Toluene-d8				50.0	102	117		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	99.2	113		55.8 - 141		

Work Order:	2011037	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0		50.0	90.2	116	24.7	70 - 130	30	
Benzene	2.2	10		50.0	88.2	109	20.7	66.5 - 135	30	
Ethylbenzene	1.65	10.0		50.0	90.5	111	20.1	70 - 130	30	
Toluene	1.82	10		50.0	91.6	113	20.7	56.8 - 134	30	
m,p-Xylene	3.16	10.0		100	95.1	116	19.8	70 - 130	30	
o-Xylene	1.73	10.0		50.0	85.3	103	18.5	70 - 130	30	
(S) Dibromofluoromethane				50.0	106	117		59.8 - 148		
(S) Toluene-d8				50.0	102	117		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	99.2	113		55.8 - 141		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011037	Prep Method:	5035GRO	Prep Date:	11/05/20	Prep Batch:	1126820
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/6/2020	Analytical Batch:	451935
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	85.4	81.6	4.55	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	109	93.7		43.9 - 127		

Work Order:	2011037	Prep Method:	5035	Prep Date:	11/06/20	Prep Batch:	1126889
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/7/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0	ND	50.0	101	102	0.592	70 - 130	30	
Benzene	2.2	10	ND	50.0	98.1	101	2.41	66.5 - 135	30	
Ethylbenzene	1.65	10.0	ND	50.0	104	106	2.10	70 - 130	30	
Toluene	1.82	10	ND	50.0	106	106	0.188	56.8 - 134	30	
m,p-Xylene	3.16	10.0	ND	100	109	111	1.82	70 - 130	30	
o-Xylene	1.73	10.0	ND	50.0	94.2	96.8	2.72	70 - 130	30	
(S) Dibromofluoromethane				50.0	99.1	102		59.8 - 148		
(S) Toluene-d8				50.0	101	104		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	99.2	104		55.8 - 141		

Work Order:	2011037	Prep Method:	5035GRO	Prep Date:	11/06/20	Prep Batch:	1126890
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/7/2020	Analytical Batch:	452010
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	85.0	83.7	1.54	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	80.7	84.9		43.9 - 127		



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011037	Prep Method:	3546_TPHSG	Prep Date:	11/05/20	Prep Batch:	1126811
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/7/2020	Analytical Batch:	451989
Spiked Sample:	2011037-007A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	8.50	20.0	61.6	25.0	0	-89.2	4.48	40 - 110	30	S,x
Pentacosane (S)				200	51.8	52.5		40 - 129		

Work Order:	2011037	Prep Method:	5035	Prep Date:	11/05/20	Prep Batch:	1126817
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/5/2020	Analytical Batch:	451935
Spiked Sample:	2011037-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.0020	0.010	ND	0.05	89.1	104	15.3	55 - 125	30	
Benzene	0.0022	0.010	ND	0.05	102	119	15.3	55 - 125	30	
Trichloroethylene	0.0018	0.010	0.0112	0.05	90.3	113	18.2	55 - 125	30	
Toluene	0.0018	0.010	ND	0.05	104	117	11.2	55 - 125	30	
Chlorobenzene	0.0018	0.010	ND	0.05	91.1	108	17.3	55 - 125	30	
(S) Dibromofluoromethane				50	127	131		59.8 - 148		
(S) Toluene-d8				50	114	117		55.2 - 133		
(S) 4-Bromofluorobenzene				50	110	117		55.8 - 141		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 11/4/2020 1:15:00PM

Project Name: Brindle Gate

Received By: Lorna Imbat

Work Order No.: 2011037

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Yes Temperature: 2.0 °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: n/a pH Adjusted by: n/a

Comments:



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/9/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/4/2020
Time Received: 1:15 pm

Comments:

Work Order # : 2011037

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011037-001A	S-36-10-S@5'	11/03/20 11:20	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
Sample Note:	MBTEX only.							
2011037-002A	S-36-10-S@10'	11/03/20 11:22	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011037-003A	S-36-10-N@5'	11/03/20 11:33	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011037-004A	S-36-10-N@10'	11/03/20 11:42	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011037-005A	S-36-10-W@5'	11/03/20 11:56	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011037-006A	S-36-10-W@10'	11/03/20 11:58	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011037-007A	S-36-10-C@5'	11/03/20 12:02	Soil	05/02/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011037-008A	S-36-10-C@10'	11/03/20 12:04	Soil	05/02/21			TPHDOSG_S_8015B	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/9/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/4/2020
Time Received: 1:15 pm

Comments:

Work Order # : 2011037

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
							VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	



CHAIN OF CUSTODY RECORD

2011037

PROJECT NUMBER: 3359.010.001
 PROJECT NAME: Brindle Gate
 SAMPLED BY: (SIGNATURE/PRINT) Taunee Werts
 OBJECT MANAGER: (SIGNATURE/PRINT) Brooke Spruit
 CONTACTING E-MAIL: bspruit, twerts, smunger@engco.com

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TPH-9	BTEX	MTBE	TPH-d/mo	TO-15	REMARKS
5-30-10-S @ 5'	11/3/20	11:20	soil	1	Steele	N/A	X	X	X	X	X	-001A
↓ 010'		11:22					X	X	X	X	X	-002A
5-30-10-N @ 5'		11:33					X	X	X	X	X	-003A
↓ 010'		11:42					X	X	X	X	X	-004A
5-30-10-W @ 5'		11:50					X	X	X	X	X	-005A
↓ 010'		11:58					X	X	X	X	X	-006A
5-30-10-L @ 5'		12:02					X	X	X	X	X	-007A
↓ 010'		12:04					X	X	X	X	X	-008A
SG-3-10		10:15	AIR				X	X	X	X	X	
SG-TF1		12:45					X	X	X	X	X	
SG-TF2		12:58					X	X	X	X	X	
SG-TF3		13:00					X	X	X	X	X	
SG-31-10		13:20					X	X	X	X	X	
SG-31-10							X	X	X	X	X	

RELINQUISHED BY: (SIGNATURE) [Signature] DATE/TIME: 11/4/20 07:00
 RECEIVED BY: (SIGNATURE) [Signature] DATE/TIME: 11/4/12:34
 RELINQUISHED BY: (SIGNATURE) [Signature] DATE/TIME: [Blank] RECEIVED BY: (SIGNATURE) [Signature] DATE/TIME: [Blank]
 RECEIVED FOR LABORATORY BY: (SIGNATURE) [Signature] DATE/TIME: [Blank] REMARKS: [Blank]

ENGEO
INCORPORATED

2010 CROW CANYON PLACE SUITE 250
 SAN RAMON, CALIFORNIA 94583
 (925) 866-9000 FAX (888) 279-2698
 WWW.ENGEO.COM

FC Jump 2 #1

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES



Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: Brindle Gate

Work Order No.: 2011038 Rev: 1

Dear Brooke Spruit:

Torrent Laboratory, Inc. received 5 sample(s) on November 04, 2020 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink that reads "Kathie Evans". The signature is written in a cursive style and is positioned above a horizontal line.

Kathie Evans
Project Manager

November 09, 2020

Date



Date: 11/9/2020

Client: Engeo (San Ramon)

Project: Brindle Gate

Work Order: 2011038

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

REVISIONS

Report revised to include Methane and Oxygen data.

Rev. 1 (11/20/20)



Sample Result Summary

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date Received: 11/04/20

Date Reported: 11/09/20

SG-3-10

2011038-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Oxygen	D1946	6.1	0.064	0.31	15%
Carbon Disulfide	ETO15	1	0.37	1.6	2.4
Acetone	ETO15	1	0.40	12	17
tert-Butanol	ETO15	1	0.62	1.5	11
Chloroform	ETO15	1	0.97	2.4	4.3
2-Butanone (MEK)	ETO15	1	0.39	1.5	8.8
Tetrahydrofuran	ETO15	1	0.45	1.5	52
Benzene	ETO15	1	0.44	1.6	3.8
Toluene	ETO15	1	0.75	1.9	21
Tetrachloroethylene	ETO15	1	1.5	3.4	6.0
Ethyl Benzene	ETO15	1	0.63	2.2	5.3
m,p-Xylene	ETO15	1	0.98	2.2	17
o-Xylene	ETO15	1	0.30	2.2	6.5
4-Ethyl Toluene	ETO15	1	0.55	2.5	5.6
1,2,4-Trimethylbenzene	ETO15	1	0.60	2.5	4.9

SG-TF1

2011038-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Oxygen	D1946	4.1	0.043	0.21	14%
Carbon Disulfide	ETO15	1	0.37	1.6	8.2
Hexane	ETO15	1	0.46	1.8	9.8
tert-Butanol	ETO15	1	0.62	1.5	11
Chloroform	ETO15	1	0.97	2.4	8.7
Benzene	ETO15	1	0.44	1.6	4.8
Toluene	ETO15	1	0.75	1.9	8.6
Tetrachloroethylene	ETO15	1	1.5	3.4	4.6
Ethyl Benzene	ETO15	1	0.63	2.2	20
m,p-Xylene	ETO15	1	0.98	2.2	72
o-Xylene	ETO15	1	0.30	2.2	20
1,2,4-Trimethylbenzene	ETO15	1	0.60	2.5	2.6

SG-TF2

2011038-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Oxygen	D1946	4.2	0.044	0.21	14%
Carbon Disulfide	ETO15	1	0.37	1.6	6.6
Hexane	ETO15	1	0.46	1.8	9.8
Chloroform	ETO15	1	0.97	2.4	4.1
Benzene	ETO15	1	0.44	1.6	3.5
Toluene	ETO15	1	0.75	1.9	7.3
Tetrachloroethylene	ETO15	1	1.5	3.4	4.7



Sample Result Summary

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date Received: 11/04/20

Date Reported: 11/09/20

SG-TF3

2011038-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Oxygen	D1946	5.8	0.061	0.29	15%
1,3-Butadiene	ETO15	1	0.34	1.1	1.1
Carbon Disulfide	ETO15	1	0.37	1.6	6.3
Acetone	ETO15	1	0.40	12	83
Hexane	ETO15	1	0.46	1.8	6.4
tert-Butanol	ETO15	1	0.62	1.5	7.3
2-Butanone (MEK)	ETO15	1	0.39	1.5	33
Benzene	ETO15	1	0.44	1.6	5.1
Toluene	ETO15	1	0.75	1.9	10
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	13
Tetrachloroethylene	ETO15	1	1.5	3.4	5.5
2-Hexanone	ETO15	1	0.65	2.1	12
Ethyl Benzene	ETO15	1	0.63	2.2	2.8
m,p-Xylene	ETO15	1	0.98	2.2	6.8
o-Xylene	ETO15	1	0.30	2.2	2.2
4-Ethyl Toluene	ETO15	1	0.55	2.5	2.8
1,2,4-Trimethylbenzene	ETO15	1	0.60	2.5	4.4

SG-39

2011038-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Oxygen	D1946	4.5	0.047	0.23	14%
Carbon Disulfide	ETO15	30	11	47	33
Acetone	ETO15	30	12	360	25
Hexane	ETO15	30	14	53	24
Tetrahydrofuran	ETO15	30	13	44	44
Toluene	ETO15	30	23	57	200
Ethyl Benzene	ETO15	30	19	65	1400
m,p-Xylene	ETO15	30	29	65	4800
o-Xylene	ETO15	30	9.1	65	1300



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID: SG-3-10	Lab Sample ID: 2011038-001A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/03/20 / 10:15	Certified Clean WO # :
Canister/Tube ID: 6109	Received PSI : 11.0
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: FG-P	Prep Batch Date/Time: 11/18/20 7:35:00PM
Prep Batch ID: 1127231	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	6.10	0.064	0.31	15			11/18/20	20:49	BP	452322
Methane	D1946	6.10	0.014	0.031	ND			11/18/20	20:49	BP	452322

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20 6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		11/06/20	12:35	BA	452006
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		11/06/20	12:35	BA	452006
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		11/06/20	12:35	BA	452006
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		11/06/20	12:35	BA	452006
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		11/06/20	12:35	BA	452006
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		11/06/20	12:35	BA	452006
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		11/06/20	12:35	BA	452006
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		11/06/20	12:35	BA	452006
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		11/06/20	12:35	BA	452006
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/06/20	12:35	BA	452006
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		11/06/20	12:35	BA	452006
Carbon Disulfide	ETO15	1.00	0.37	1.6	2.4	0.77		11/06/20	12:35	BA	452006
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		11/06/20	12:35	BA	452006
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		11/06/20	12:35	BA	452006
Acetone	ETO15	1.00	0.40	12	17	7.14		11/06/20	12:35	BA	452006
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		11/06/20	12:35	BA	452006
Hexane	ETO15	1.00	0.46	1.8	ND	ND		11/06/20	12:35	BA	452006
MTBE	ETO15	1.00	0.44	1.8	ND	ND		11/06/20	12:35	BA	452006
tert-Butanol	ETO15	1.00	0.62	1.5	11	3.63		11/06/20	12:35	BA	452006
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		11/06/20	12:35	BA	452006
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		11/06/20	12:35	BA	452006
ETBE	ETO15	1.00	0.33	2.1	ND	ND		11/06/20	12:35	BA	452006
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/06/20	12:35	BA	452006
Chloroform	ETO15	1.00	0.97	2.4	4.3	0.88		11/06/20	12:35	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID: SG-3-10	Lab Sample ID: 2011038-001A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/03/20 / 10:15	Certified Clean WO # :
Canister/Tube ID: 6109	Received PSI : 11.0
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		11/06/20	12:35	BA	452006
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		11/06/20	12:35	BA	452006
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		11/06/20	12:35	BA	452006
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	8.8	2.98		11/06/20	12:35	BA	452006
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		11/06/20	12:35	BA	452006
Tetrahydrofuran	ETO15	1.00	0.45	1.5	52	17.63		11/06/20	12:35	BA	452006
Benzene	ETO15	1.00	0.44	1.6	3.8	1.19		11/06/20	12:35	BA	452006
TAME	ETO15	1.00	0.67	2.1	ND	ND		11/06/20	12:35	BA	452006
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		11/06/20	12:35	BA	452006
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		11/06/20	12:35	BA	452006
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		11/06/20	12:35	BA	452006
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		11/06/20	12:35	BA	452006
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		11/06/20	12:35	BA	452006
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		11/06/20	12:35	BA	452006
Toluene	ETO15	1.00	0.75	1.9	21	5.57		11/06/20	12:35	BA	452006
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		11/06/20	12:35	BA	452006
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		11/06/20	12:35	BA	452006
Tetrachloroethylene	ETO15	1.00	1.5	3.4	6.0	0.88		11/06/20	12:35	BA	452006
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		11/06/20	12:35	BA	452006
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		11/06/20	12:35	BA	452006
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		11/06/20	12:35	BA	452006
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		11/06/20	12:35	BA	452006
Ethyl Benzene	ETO15	1.00	0.63	2.2	5.3	1.22		11/06/20	12:35	BA	452006
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		11/06/20	12:35	BA	452006
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		11/06/20	12:35	BA	452006
m,p-Xylene	ETO15	1.00	0.98	2.2	17	3.92		11/06/20	12:35	BA	452006
o-Xylene	ETO15	1.00	0.30	2.2	6.5	1.50		11/06/20	12:35	BA	452006
Styrene	ETO15	1.00	0.46	2.1	ND	ND		11/06/20	12:35	BA	452006
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		11/06/20	12:35	BA	452006
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		11/06/20	12:35	BA	452006
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	5.6	1.14		11/06/20	12:35	BA	452006
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		11/06/20	12:35	BA	452006
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	4.9	1.00		11/06/20	12:35	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	SG-3-10	Lab Sample ID:	2011038-001A
Project Name/Location:	Brindle Gate	Sample Matrix:	Air
Project Number:	3359.210.001	Certified Clean WO # :	
Date/Time Sampled:	11/03/20 / 10:15	Received PSI :	11.0
Canister/Tube ID:	6109	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		11/06/20	12:35	BA	452006
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		11/06/20	12:35	BA	452006
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		11/06/20	12:35	BA	452006
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		11/06/20	12:35	BA	452006
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		11/06/20	12:35	BA	452006
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		11/06/20	12:35	BA	452006
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	93 %			11/06/20	12:35	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID: SG-TF1	Lab Sample ID: 2011038-002A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/03/20 / 12:45	Certified Clean WO # :
Canister/Tube ID: N3952	Received PSI : 12.3
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: FG-P	Prep Batch Date/Time: 11/18/20	7:35:00PM
Prep Batch ID: 1127231	Prep Analyst: BPATEL	

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	4.10	0.043	0.21	14			11/18/20	21:07	BP	452322
Methane	D1946	4.10	0.0096	0.021	ND			11/18/20	21:07	BP	452322

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		11/06/20	13:00	BA	452006
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		11/06/20	13:00	BA	452006
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		11/06/20	13:00	BA	452006
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		11/06/20	13:00	BA	452006
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		11/06/20	13:00	BA	452006
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		11/06/20	13:00	BA	452006
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		11/06/20	13:00	BA	452006
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		11/06/20	13:00	BA	452006
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		11/06/20	13:00	BA	452006
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/06/20	13:00	BA	452006
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		11/06/20	13:00	BA	452006
Carbon Disulfide	ETO15	1.00	0.37	1.6	8.2	2.64		11/06/20	13:00	BA	452006
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		11/06/20	13:00	BA	452006
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		11/06/20	13:00	BA	452006
Acetone	ETO15	1.00	0.40	12	ND	ND		11/06/20	13:00	BA	452006
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		11/06/20	13:00	BA	452006
Hexane	ETO15	1.00	0.46	1.8	9.8	2.78		11/06/20	13:00	BA	452006
MTBE	ETO15	1.00	0.44	1.8	ND	ND		11/06/20	13:00	BA	452006
tert-Butanol	ETO15	1.00	0.62	1.5	11	3.63		11/06/20	13:00	BA	452006
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		11/06/20	13:00	BA	452006
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		11/06/20	13:00	BA	452006
ETBE	ETO15	1.00	0.33	2.1	ND	ND		11/06/20	13:00	BA	452006
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/06/20	13:00	BA	452006
Chloroform	ETO15	1.00	0.97	2.4	8.7	1.78		11/06/20	13:00	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID: SG-TF1	Lab Sample ID: 2011038-002A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/03/20 / 12:45	Certified Clean WO # :
Canister/Tube ID: N3952	Received PSI : 12.3
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		11/06/20	13:00	BA	452006
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		11/06/20	13:00	BA	452006
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		11/06/20	13:00	BA	452006
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	ND	ND		11/06/20	13:00	BA	452006
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		11/06/20	13:00	BA	452006
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		11/06/20	13:00	BA	452006
Benzene	ETO15	1.00	0.44	1.6	4.8	1.50		11/06/20	13:00	BA	452006
TAME	ETO15	1.00	0.67	2.1	ND	ND		11/06/20	13:00	BA	452006
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		11/06/20	13:00	BA	452006
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		11/06/20	13:00	BA	452006
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		11/06/20	13:00	BA	452006
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		11/06/20	13:00	BA	452006
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		11/06/20	13:00	BA	452006
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		11/06/20	13:00	BA	452006
Toluene	ETO15	1.00	0.75	1.9	8.6	2.28		11/06/20	13:00	BA	452006
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		11/06/20	13:00	BA	452006
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		11/06/20	13:00	BA	452006
Tetrachloroethylene	ETO15	1.00	1.5	3.4	4.6	0.68		11/06/20	13:00	BA	452006
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		11/06/20	13:00	BA	452006
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		11/06/20	13:00	BA	452006
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		11/06/20	13:00	BA	452006
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		11/06/20	13:00	BA	452006
Ethyl Benzene	ETO15	1.00	0.63	2.2	20	4.61		11/06/20	13:00	BA	452006
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		11/06/20	13:00	BA	452006
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		11/06/20	13:00	BA	452006
m,p-Xylene	ETO15	1.00	0.98	2.2	72	16.59		11/06/20	13:00	BA	452006
o-Xylene	ETO15	1.00	0.30	2.2	20	4.61		11/06/20	13:00	BA	452006
Styrene	ETO15	1.00	0.46	2.1	ND	ND		11/06/20	13:00	BA	452006
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		11/06/20	13:00	BA	452006
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		11/06/20	13:00	BA	452006
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		11/06/20	13:00	BA	452006
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		11/06/20	13:00	BA	452006
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	2.6	0.53		11/06/20	13:00	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID: SG-TF1	Lab Sample ID: 2011038-002A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/03/20 / 12:45	Certified Clean WO # :
Canister/Tube ID: N3952	Received PSI : 12.3
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		11/06/20	13:00	BA	452006
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		11/06/20	13:00	BA	452006
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		11/06/20	13:00	BA	452006
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		11/06/20	13:00	BA	452006
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		11/06/20	13:00	BA	452006
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		11/06/20	13:00	BA	452006
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	91 %			11/06/20	13:00	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID: SG-TF2	Lab Sample ID: 2011038-003A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/03/20 / 12:58	Certified Clean WO # :
Canister/Tube ID: N11712	Received PSI : 13.0
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: FG-P	Prep Batch Date/Time: 11/18/20 7:35:00PM
Prep Batch ID: 1127231	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	4.20	0.044	0.21	14			11/18/20	21:29	BP	452322
Methane	D1946	4.20	0.0098	0.021	ND			11/18/20	21:29	BP	452322

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20 6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		11/06/20	13:25	BA	452006
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		11/06/20	13:25	BA	452006
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		11/06/20	13:25	BA	452006
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		11/06/20	13:25	BA	452006
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		11/06/20	13:25	BA	452006
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		11/06/20	13:25	BA	452006
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		11/06/20	13:25	BA	452006
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		11/06/20	13:25	BA	452006
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		11/06/20	13:25	BA	452006
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/06/20	13:25	BA	452006
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		11/06/20	13:25	BA	452006
Carbon Disulfide	ETO15	1.00	0.37	1.6	6.6	2.12		11/06/20	13:25	BA	452006
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		11/06/20	13:25	BA	452006
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		11/06/20	13:25	BA	452006
Acetone	ETO15	1.00	0.40	12	ND	ND		11/06/20	13:25	BA	452006
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		11/06/20	13:25	BA	452006
Hexane	ETO15	1.00	0.46	1.8	9.8	2.78		11/06/20	13:25	BA	452006
MTBE	ETO15	1.00	0.44	1.8	ND	ND		11/06/20	13:25	BA	452006
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		11/06/20	13:25	BA	452006
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		11/06/20	13:25	BA	452006
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		11/06/20	13:25	BA	452006
ETBE	ETO15	1.00	0.33	2.1	ND	ND		11/06/20	13:25	BA	452006
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/06/20	13:25	BA	452006
Chloroform	ETO15	1.00	0.97	2.4	4.1	0.84		11/06/20	13:25	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID: SG-TF2	Lab Sample ID: 2011038-003A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/03/20 / 12:58	Certified Clean WO # :
Canister/Tube ID: N11712	Received PSI : 13.0
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		11/06/20	13:25	BA	452006
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		11/06/20	13:25	BA	452006
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		11/06/20	13:25	BA	452006
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	ND	ND		11/06/20	13:25	BA	452006
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		11/06/20	13:25	BA	452006
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		11/06/20	13:25	BA	452006
Benzene	ETO15	1.00	0.44	1.6	3.5	1.10		11/06/20	13:25	BA	452006
TAME	ETO15	1.00	0.67	2.1	ND	ND		11/06/20	13:25	BA	452006
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		11/06/20	13:25	BA	452006
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		11/06/20	13:25	BA	452006
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		11/06/20	13:25	BA	452006
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		11/06/20	13:25	BA	452006
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		11/06/20	13:25	BA	452006
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		11/06/20	13:25	BA	452006
Toluene	ETO15	1.00	0.75	1.9	7.3	1.94		11/06/20	13:25	BA	452006
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		11/06/20	13:25	BA	452006
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		11/06/20	13:25	BA	452006
Tetrachloroethylene	ETO15	1.00	1.5	3.4	4.7	0.69		11/06/20	13:25	BA	452006
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		11/06/20	13:25	BA	452006
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		11/06/20	13:25	BA	452006
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		11/06/20	13:25	BA	452006
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		11/06/20	13:25	BA	452006
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		11/06/20	13:25	BA	452006
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		11/06/20	13:25	BA	452006
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		11/06/20	13:25	BA	452006
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		11/06/20	13:25	BA	452006
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		11/06/20	13:25	BA	452006
Styrene	ETO15	1.00	0.46	2.1	ND	ND		11/06/20	13:25	BA	452006
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		11/06/20	13:25	BA	452006
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		11/06/20	13:25	BA	452006
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		11/06/20	13:25	BA	452006
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		11/06/20	13:25	BA	452006
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		11/06/20	13:25	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	SG-TF2	Lab Sample ID:	2011038-003A
Project Name/Location:	Brindle Gate	Sample Matrix:	Air
Project Number:	3359.210.001	Certified Clean WO # :	
Date/Time Sampled:	11/03/20 / 12:58	Received PSI :	13.0
Canister/Tube ID:	N11712	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		11/06/20	13:25	BA	452006
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		11/06/20	13:25	BA	452006
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		11/06/20	13:25	BA	452006
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		11/06/20	13:25	BA	452006
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		11/06/20	13:25	BA	452006
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		11/06/20	13:25	BA	452006
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	100 %			11/06/20	13:25	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID: SG-TF3	Lab Sample ID: 2011038-004A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/03/20 / 13:06	Certified Clean WO # :
Canister/Tube ID: R3566	Received PSI : 12.6
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: FG-P	Prep Batch Date/Time: 11/18/20	7:35:00PM
Prep Batch ID: 1127231	Prep Analyst: BPATEL	

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	5.80	0.061	0.29	15			11/19/20	9:29	BP	452322
Methane	D1946	5.80	0.014	0.029	ND			11/19/20	9:29	BP	452322

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		11/06/20	15:05	BA	452006
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		11/06/20	15:05	BA	452006
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		11/06/20	15:05	BA	452006
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		11/06/20	15:05	BA	452006
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		11/06/20	15:05	BA	452006
1,3-Butadiene	ETO15	1.00	0.34	1.1	1.1	0.50		11/06/20	15:05	BA	452006
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		11/06/20	15:05	BA	452006
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		11/06/20	15:05	BA	452006
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		11/06/20	15:05	BA	452006
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/06/20	15:05	BA	452006
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		11/06/20	15:05	BA	452006
Carbon Disulfide	ETO15	1.00	0.37	1.6	6.3	2.03		11/06/20	15:05	BA	452006
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		11/06/20	15:05	BA	452006
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		11/06/20	15:05	BA	452006
Acetone	ETO15	1.00	0.40	12	83	34.87		11/06/20	15:05	BA	452006
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		11/06/20	15:05	BA	452006
Hexane	ETO15	1.00	0.46	1.8	6.4	1.82		11/06/20	15:05	BA	452006
MTBE	ETO15	1.00	0.44	1.8	ND	ND		11/06/20	15:05	BA	452006
tert-Butanol	ETO15	1.00	0.62	1.5	7.3	2.41		11/06/20	15:05	BA	452006
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		11/06/20	15:05	BA	452006
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		11/06/20	15:05	BA	452006
ETBE	ETO15	1.00	0.33	2.1	ND	ND		11/06/20	15:05	BA	452006
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/06/20	15:05	BA	452006
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		11/06/20	15:05	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID: SG-TF3	Lab Sample ID: 2011038-004A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/03/20 / 13:06	Certified Clean WO # :
Canister/Tube ID: R3566	Received PSI : 12.6
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		11/06/20	15:05	BA	452006
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		11/06/20	15:05	BA	452006
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		11/06/20	15:05	BA	452006
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	33	11.19		11/06/20	15:05	BA	452006
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		11/06/20	15:05	BA	452006
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		11/06/20	15:05	BA	452006
Benzene	ETO15	1.00	0.44	1.6	5.1	1.60		11/06/20	15:05	BA	452006
TAME	ETO15	1.00	0.67	2.1	ND	ND		11/06/20	15:05	BA	452006
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		11/06/20	15:05	BA	452006
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		11/06/20	15:05	BA	452006
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		11/06/20	15:05	BA	452006
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		11/06/20	15:05	BA	452006
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		11/06/20	15:05	BA	452006
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		11/06/20	15:05	BA	452006
Toluene	ETO15	1.00	0.75	1.9	10	2.65		11/06/20	15:05	BA	452006
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	13	3.17		11/06/20	15:05	BA	452006
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		11/06/20	15:05	BA	452006
Tetrachloroethylene	ETO15	1.00	1.5	3.4	5.5	0.81		11/06/20	15:05	BA	452006
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		11/06/20	15:05	BA	452006
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		11/06/20	15:05	BA	452006
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		11/06/20	15:05	BA	452006
2-Hexanone	ETO15	1.00	0.65	2.1	12	2.93		11/06/20	15:05	BA	452006
Ethyl Benzene	ETO15	1.00	0.63	2.2	2.8	0.65		11/06/20	15:05	BA	452006
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		11/06/20	15:05	BA	452006
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		11/06/20	15:05	BA	452006
m,p-Xylene	ETO15	1.00	0.98	2.2	6.8	1.57		11/06/20	15:05	BA	452006
o-Xylene	ETO15	1.00	0.30	2.2	2.2	0.51		11/06/20	15:05	BA	452006
Styrene	ETO15	1.00	0.46	2.1	ND	ND		11/06/20	15:05	BA	452006
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		11/06/20	15:05	BA	452006
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		11/06/20	15:05	BA	452006
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	2.8	0.57		11/06/20	15:05	BA	452006
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		11/06/20	15:05	BA	452006
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	4.4	0.89		11/06/20	15:05	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	SG-TF3	Lab Sample ID:	2011038-004A
Project Name/Location:	Brindle Gate	Sample Matrix:	Air
Project Number:	3359.210.001	Certified Clean WO # :	
Date/Time Sampled:	11/03/20 / 13:06	Received PSI :	12.6
Canister/Tube ID:	R3566	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		11/06/20	15:05	BA	452006
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		11/06/20	15:05	BA	452006
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		11/06/20	15:05	BA	452006
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		11/06/20	15:05	BA	452006
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		11/06/20	15:05	BA	452006
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		11/06/20	15:05	BA	452006
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	100 %			11/06/20	15:05	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID: SG-39	Lab Sample ID: 2011038-005A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/03/20 / 13:35	Certified Clean WO # :
Canister/Tube ID: R3591	Received PSI : 9.9
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: FG-P	Prep Batch Date/Time: 11/18/20	7:35:00PM
Prep Batch ID: 1127231	Prep Analyst: BPATEL	

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	4.50	0.047	0.23	14			11/19/20	9:51	BP	452322
Methane	D1946	4.50	0.011	0.023	ND			11/19/20	9:51	BP	452322

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		11/06/20	14:14	BA	452006
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		11/06/20	14:14	BA	452006
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		11/06/20	14:14	BA	452006
Chloromethane	ETO15	30.00	61	120	ND	ND		11/06/20	14:14	BA	452006
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		11/06/20	14:14	BA	452006
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		11/06/20	14:14	BA	452006
Bromomethane	ETO15	30.00	20	58	ND	ND		11/06/20	14:14	BA	452006
Chloroethane	ETO15	30.00	24	40	ND	ND		11/06/20	14:14	BA	452006
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		11/06/20	14:14	BA	452006
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		11/06/20	14:14	BA	452006
Freon 113	ETO15	30.00	31	110	ND	ND		11/06/20	14:14	BA	452006
Carbon Disulfide	ETO15	30.00	11	47	33	10.61	J	11/06/20	14:14	BA	452006
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		11/06/20	14:14	BA	452006
Methylene Chloride	ETO15	30.00	21	310	ND	ND		11/06/20	14:14	BA	452006
Acetone	ETO15	30.00	12	360	25	10.50	J	11/06/20	14:14	BA	452006
trans-1,2-Dichloroethene	ETO15	30.00	14	59	ND	ND		11/06/20	14:14	BA	452006
Hexane	ETO15	30.00	14	53	24	6.82	J	11/06/20	14:14	BA	452006
MTBE	ETO15	30.00	13	54	ND	ND		11/06/20	14:14	BA	452006
tert-Butanol	ETO15	30.00	19	45	ND	ND		11/06/20	14:14	BA	452006
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		11/06/20	14:14	BA	452006
1,1-Dichloroethane	ETO15	30.00	16	61	ND	ND		11/06/20	14:14	BA	452006
ETBE	ETO15	30.00	9.8	63	ND	ND		11/06/20	14:14	BA	452006
cis-1,2-Dichloroethene	ETO15	30.00	25	59	ND	ND		11/06/20	14:14	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID: SG-39	Lab Sample ID: 2011038-005A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/03/20 / 13:35	Certified Clean WO # :
Canister/Tube ID: R3591	Received PSI : 9.9
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Chloroform	ETO15	30.00	29	73	ND	ND		11/06/20	14:14	BA	452006
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		11/06/20	14:14	BA	452006
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		11/06/20	14:14	BA	452006
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		11/06/20	14:14	BA	452006
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		11/06/20	14:14	BA	452006
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		11/06/20	14:14	BA	452006
Tetrahydrofuran	ETO15	30.00	13	44	44	14.92		11/06/20	14:14	BA	452006
Benzene	ETO15	30.00	13	48	ND	ND		11/06/20	14:14	BA	452006
TAME	ETO15	30.00	20	63	ND	ND		11/06/20	14:14	BA	452006
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		11/06/20	14:14	BA	452006
Trichloroethylene	ETO15	30.00	24	81	ND	ND		11/06/20	14:14	BA	452006
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		11/06/20	14:14	BA	452006
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		11/06/20	14:14	BA	452006
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		11/06/20	14:14	BA	452006
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		11/06/20	14:14	BA	452006
Toluene	ETO15	30.00	23	57	200	53.05		11/06/20	14:14	BA	452006
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		11/06/20	14:14	BA	452006
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		11/06/20	14:14	BA	452006
Tetrachloroethylene	ETO15	30.00	44	100	ND	ND		11/06/20	14:14	BA	452006
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		11/06/20	14:14	BA	452006
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		11/06/20	14:14	BA	452006
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		11/06/20	14:14	BA	452006
2-Hexanone	ETO15	30.00	20	62	ND	ND		11/06/20	14:14	BA	452006
Ethyl Benzene	ETO15	30.00	19	65	1400	322.58		11/06/20	14:14	BA	452006
Chlorobenzene	ETO15	30.00	18	69	ND	ND		11/06/20	14:14	BA	452006
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		11/06/20	14:14	BA	452006
m,p-Xylene	ETO15	30.00	29	65	4800	1,105.99		11/06/20	14:14	BA	452006
o-Xylene	ETO15	30.00	9.1	65	1300	299.54		11/06/20	14:14	BA	452006
Styrene	ETO15	30.00	14	64	ND	ND		11/06/20	14:14	BA	452006
Bromoform	ETO15	30.00	39	160	ND	ND		11/06/20	14:14	BA	452006
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		11/06/20	14:14	BA	452006
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		11/06/20	14:14	BA	452006
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		11/06/20	14:14	BA	452006



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/04/20, 1:15 pm
Date Reported: 11/09/20

Client Sample ID:	SG-39	Lab Sample ID:	2011038-005A
Project Name/Location:	Brindle Gate	Sample Matrix:	Air
Project Number:	3359.210.001	Certified Clean WO # :	
Date/Time Sampled:	11/03/20 / 13:35	Received PSI :	9.9
Canister/Tube ID:	R3591	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 11/5/20	6:00:00PM
Prep Batch ID: 1126880	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		11/06/20	14:14	BA	452006
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		11/06/20	14:14	BA	452006
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		11/06/20	14:14	BA	452006
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		11/06/20	14:14	BA	452006
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		11/06/20	14:14	BA	452006
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		11/06/20	14:14	BA	452006
Naphthalene	ETO15	30.00	38	79	ND	ND		11/06/20	14:14	BA	452006
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	87 %			11/06/20	14:14	BA	452006



MB Summary Report

Work Order:	2011038	Prep Method:	TO15-P	Prep Date:	11/05/20	Prep Batch:	1126880
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	11/5/2020	Analytical Batch:	452006
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.32	0.50	ND		
1,1-Difluoroethane	0.13	5.0	0.94		
1,2-Dichlorotetrafluoroethane	0.20	0.50	ND		
Chloromethane	0.99	2.0	ND		
Vinyl Chloride	0.088	0.50	ND		
1,3-Butadiene	0.15	0.50	ND		
Bromomethane	0.17	0.50	ND		
Chloroethane	0.31	0.50	ND		
Trichlorofluoromethane	0.099	0.50	ND		
1,1-Dichloroethene	0.21	0.50	ND		
Freon 113	0.13	0.50	ND		
Carbon Disulfide	0.12	0.50	ND		
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND		
Methylene Chloride	0.20	3.0	ND		
Acetone	0.17	5.0	ND		
trans-1,2-Dichloroethene	0.12	0.50	ND		
Hexane	0.13	0.50	ND		
MTBE	0.12	0.50	ND		
tert-Butanol	0.20	0.50	ND		
Diisopropyl ether (DIPE)	0.18	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.078	0.50	ND		
cis-1,2-Dichloroethene	0.21	0.50	ND		
Chloroform	0.20	0.50	ND		
Vinyl Acetate	0.22	0.50	ND		
Carbon Tetrachloride	0.18	0.50	ND		
1,1,1-Trichloroethane	0.15	0.50	ND		
2-Butanone (MEK)	0.13	0.50	ND		
Ethyl Acetate	0.13	0.50	0.17		
Tetrahydrofuran	0.15	0.50	ND		
Benzene	0.14	0.50	ND		
TAME	0.16	0.50	ND		
1,2-Dichloroethane (EDC)	0.10	0.50	ND		
Trichloroethylene	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.11	0.50	ND		
1,4-Dioxane	0.50	1.0	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
Toluene	0.20	0.50	ND		
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	ND		
cis-1,3-Dichloropropene	0.093	0.50	ND		
Tetrachloroethylene	0.22	0.50	ND		



MB Summary Report

Work Order:	2011038	Prep Method:	TO15-P	Prep Date:	11/05/20	Prep Batch:	1126880
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	11/5/2020	Analytical Batch:	452006
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
1,1,2-Trichloroethane	0.11	0.50	ND		
Dibromochloromethane	0.13	0.50	ND		
1,2-Dibromoethane (EDB)	0.096	0.50	ND		
2-Hexanone	0.16	0.50	ND		
Ethyl Benzene	0.15	0.50	ND		
Chlorobenzene	0.13	0.50	ND		
1,1,1,2-Tetrachloroethane	0.12	0.50	ND		
m,p-Xylene	0.23	0.50	ND		
o-Xylene	0.070	0.50	ND		
Styrene	0.11	0.50	ND		
Bromoform	0.13	0.50	ND		
1,1,2,2-Tetrachloroethane	0.12	0.50	ND		
4-Ethyl Toluene	0.11	0.50	ND		
1,3,5-Trimethylbenzene	0.061	0.50	ND		
1,2,4-Trimethylbenzene	0.12	0.50	ND		
1,4-Dichlorobenzene	0.12	0.50	ND		
1,3-Dichlorobenzene	0.22	0.50	ND		
1,2-Dichlorobenzene	0.18	0.50	ND		
Hexachlorobutadiene	0.17	0.50	ND		
1,2,4-Trichlorobenzene	0.29	0.50	ND		
Naphthalene	0.24	0.50	ND		
Cyclohexane	0.50	0.50	ND		
Benzyl Chloride	0.20	0.50	ND		
Heptane	0.13	0.50	0.14		
(S) 4-Bromofluorobenzene			98		

Work Order:	2011038	Prep Method:	FG-P	Prep Date:	11/18/20	Prep Batch:	1127231
Matrix:	Air	Analytical Method:	D1946	Analyzed Date:	11/18/2020	Analytical Batch:	452322
Units:	ppmv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Carbon Dioxide	100	500	ND		
Ethene	110	500	ND		
Ethane	130	500	ND		
Hydrogen	180	500	ND		
Oxygen	110	500	ND		
Nitrogen	260	500	ND		
Methane	23	50	ND		
Carbon Monoxide	200	500	ND		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011038	Prep Method:	TO15-P	Prep Date:	11/05/20	Prep Batch:	1126880
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	11/5/2020	Analytical Batch:	452006
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	133	135	1.87	65 - 135	30	
Benzene	0.14	0.50	0.94	8.00	121	123	2.25	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	92.1	92.0	0.136	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	93.8	94.2	0.399	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	95.3	101	5.86	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	95.2	97.5		50 - 150		

Work Order:	2011038	Prep Method:	FG-P	Prep Date:	11/18/20	Prep Batch:	1127231
Matrix:	Air	Analytical Method:	D1946	Analyzed Date:	11/19/2020	Analytical Batch:	452322
Units:	ppmv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Carbon Dioxide	100	500	ND	2500	81.8	76.6	6.06	65 - 135	30	
Ethene	110	500	ND	2500	77.4	80.8	4.56	65 - 135	30	
Ethane	130	500	ND	2500	77.6	81.1	4.53	65 - 135	30	
Hydrogen	180	500	ND	2500	94.4	86.9	8.39	65 - 135	30	
Oxygen	110	500	ND	2500	106	100	6.20	65 - 135	30	
Nitrogen	260	500	ND	2500	118	113	3.81	65 - 135	30	
Methane	230	500	ND	2500	96.2	83.9	13.3	65 - 135	30	
Carbon Monoxide	200	500	ND	2500	100	89.9	10.5	65 - 135	30	



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 11/4/2020 1:15:00PM

Project Name: Brindle Gate

Received By: Lorna Imbat

Work Order No.: 2011038

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? No
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Temperature: °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: n/a pH Adjusted by: n/a

Comments:

Sample ID discrepancy with the CoC for sample 005. Sample ID logged in after clarification with celint



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/20/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/4/2020
Time Received: 1:15 pm

Comments:

Work Order # : 2011038

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011038-001A	SG-3-10	11/03/20 10:15	Air				VOC_A_TO15 VOC_A_FG D1946	
Sample Note: O2 & Methane. Pls transfer Nitrogen data for normalization								
2011038-002A	SG-TF1	11/03/20 12:45	Air				VOC_A_TO15 VOC_A_FG D1946	
2011038-003A	SG-TF2	11/03/20 12:58	Air				VOC_A_TO15 VOC_A_FG D1946	
2011038-004A	SG-TF3	11/03/20 13:06	Air				VOC_A_TO15 VOC_A_FG D1946	
2011038-005A	SG-39	11/03/20 13:35	Air				VOC_A_TO15 VOC_A_TO15 VOC_A_FG D1946	



Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: Brindle Gate

Work Order No.: 2011049 Rev: 1

Dear Brooke Spruit:

Torrent Laboratory, Inc. received 4 sample(s) on November 05, 2020 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink that reads "Kathie Evans". The signature is written in a cursive style and is positioned above a horizontal line.

Kathie Evans
Project Manager

November 10, 2020

Date



Date: 11/10/2020

Client: Engeo (San Ramon)

Project: Brindle Gate

Work Order: 2011049

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

REVISIONS

Report revised to include Methane and Oxygen data.

Rev. 1 (11/20/20)



Sample Result Summary

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date Received: 11/05/20

Date Reported: 11/10/20

SG-36-10

2011049-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Oxygen	D1946	2.8	0.030	0.14	15%
Carbon Disulfide	ETO15	1	0.37	1.6	1.8
Acetone	ETO15	1	0.40	12	15
tert-Butanol	ETO15	1	0.62	1.5	5.1
Toluene	ETO15	1	0.75	1.9	6.2
Tetrachloroethylene	ETO15	1	1.5	3.4	5.2

SG-32-10

2011049-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Oxygen	D1946	3.8	0.040	0.19	14%
1,3-Butadiene	ETO15	1	0.34	1.1	1.1
Freon 113	ETO15	1	1.0	3.8	4.8
Carbon Disulfide	ETO15	1	0.37	1.6	8.0
Acetone	ETO15	1	0.40	12	12
Hexane	ETO15	1	0.46	1.8	4.1
tert-Butanol	ETO15	1	0.62	1.5	7.3
Toluene	ETO15	1	0.75	1.9	6.7
Tetrachloroethylene	ETO15	1	1.5	3.4	4.7

SG-38-10

2011049-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Oxygen	D1946	2.7	0.028	0.14	14%
Toluene	ETO15	1	0.75	1.9	5.3
Tetrachloroethylene	ETO15	1	1.5	3.4	4.7

SG-34-10

2011049-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Oxygen	D1946	2.5	0.026	0.13	15%
Toluene	ETO15	1	0.75	1.9	3.3



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID: SG-36-10	Lab Sample ID: 2011049-001A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/05/20 / 7:31	Certified Clean WO # :
Canister/Tube ID: A7557	Received PSI : 12.2
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: FG-P	Prep Batch Date/Time: 11/18/20 7:35:00PM
Prep Batch ID: 1127231	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	2.80	0.030	0.14	15			11/19/20	10:21	BP	452322
Methane	D1946	2.80	0.0066	0.014	ND			11/19/20	10:21	BP	452322

Prep Method: TO15-P	Prep Batch Date/Time: 11/9/20 7:00:00AM
Prep Batch ID: 1126930	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		11/09/20	14:56	BA	452037
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		11/09/20	14:56	BA	452037
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		11/09/20	14:56	BA	452037
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		11/09/20	14:56	BA	452037
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		11/09/20	14:56	BA	452037
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		11/09/20	14:56	BA	452037
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		11/09/20	14:56	BA	452037
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		11/09/20	14:56	BA	452037
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		11/09/20	14:56	BA	452037
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/09/20	14:56	BA	452037
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		11/09/20	14:56	BA	452037
Carbon Disulfide	ETO15	1.00	0.37	1.6	1.8	0.58		11/09/20	14:56	BA	452037
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		11/09/20	14:56	BA	452037
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		11/09/20	14:56	BA	452037
Acetone	ETO15	1.00	0.40	12	15	6.30		11/09/20	14:56	BA	452037
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		11/09/20	14:56	BA	452037
Hexane	ETO15	1.00	0.46	1.8	ND	ND		11/09/20	14:56	BA	452037
MTBE	ETO15	1.00	0.44	1.8	ND	ND		11/09/20	14:56	BA	452037
tert-Butanol	ETO15	1.00	0.62	1.5	5.1	1.68		11/09/20	14:56	BA	452037
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		11/09/20	14:56	BA	452037
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		11/09/20	14:56	BA	452037
ETBE	ETO15	1.00	0.33	2.1	ND	ND		11/09/20	14:56	BA	452037
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/09/20	14:56	BA	452037
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		11/09/20	14:56	BA	452037



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID: SG-36-10	Lab Sample ID: 2011049-001A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/05/20 / 7:31	Certified Clean WO # :
Canister/Tube ID: A7557	Received PSI : 12.2
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/9/20	7:00:00AM
Prep Batch ID: 1126930	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		11/09/20	14:56	BA	452037
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		11/09/20	14:56	BA	452037
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		11/09/20	14:56	BA	452037
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	ND	ND		11/09/20	14:56	BA	452037
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		11/09/20	14:56	BA	452037
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		11/09/20	14:56	BA	452037
Benzene	ETO15	1.00	0.44	1.6	ND	ND		11/09/20	14:56	BA	452037
TAME	ETO15	1.00	0.67	2.1	ND	ND		11/09/20	14:56	BA	452037
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		11/09/20	14:56	BA	452037
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		11/09/20	14:56	BA	452037
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		11/09/20	14:56	BA	452037
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		11/09/20	14:56	BA	452037
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		11/09/20	14:56	BA	452037
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		11/09/20	14:56	BA	452037
Toluene	ETO15	1.00	0.75	1.9	6.2	1.64		11/09/20	14:56	BA	452037
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		11/09/20	14:56	BA	452037
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		11/09/20	14:56	BA	452037
Tetrachloroethylene	ETO15	1.00	1.5	3.4	5.2	0.77		11/09/20	14:56	BA	452037
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		11/09/20	14:56	BA	452037
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		11/09/20	14:56	BA	452037
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		11/09/20	14:56	BA	452037
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		11/09/20	14:56	BA	452037
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		11/09/20	14:56	BA	452037
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		11/09/20	14:56	BA	452037
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		11/09/20	14:56	BA	452037
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		11/09/20	14:56	BA	452037
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		11/09/20	14:56	BA	452037
Styrene	ETO15	1.00	0.46	2.1	ND	ND		11/09/20	14:56	BA	452037
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		11/09/20	14:56	BA	452037
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		11/09/20	14:56	BA	452037
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		11/09/20	14:56	BA	452037
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		11/09/20	14:56	BA	452037
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		11/09/20	14:56	BA	452037



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID: SG-36-10	Lab Sample ID: 2011049-001A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/05/20 / 7:31	Certified Clean WO # :
Canister/Tube ID: A7557	Received PSI : 12.2
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/9/20	7:00:00AM
Prep Batch ID: 1126930	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		11/09/20	14:56	BA	452037
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		11/09/20	14:56	BA	452037
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		11/09/20	14:56	BA	452037
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		11/09/20	14:56	BA	452037
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		11/09/20	14:56	BA	452037
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		11/09/20	14:56	BA	452037
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	110 %			11/09/20	14:56	BA	452037



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID: SG-32-10	Lab Sample ID: 2011049-002A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/05/20 / 7:52	Certified Clean WO # :
Canister/Tube ID: 6314	Received PSI : 12.9
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: FG-P	Prep Batch Date/Time: 11/18/20 7:35:00PM
Prep Batch ID: 1127231	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	3.80	0.040	0.19	14			11/19/20	10:52	BP	452322
Methane	D1946	3.80	0.0089	0.019	ND			11/19/20	10:52	BP	452322

Prep Method: TO15-P	Prep Batch Date/Time: 11/9/20 7:00:00AM
Prep Batch ID: 1126930	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		11/09/20	15:21	BA	452037
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		11/09/20	15:21	BA	452037
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		11/09/20	15:21	BA	452037
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		11/09/20	15:21	BA	452037
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		11/09/20	15:21	BA	452037
1,3-Butadiene	ETO15	1.00	0.34	1.1	1.1	0.50		11/09/20	15:21	BA	452037
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		11/09/20	15:21	BA	452037
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		11/09/20	15:21	BA	452037
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		11/09/20	15:21	BA	452037
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/09/20	15:21	BA	452037
Freon 113	ETO15	1.00	1.0	3.8	4.8	0.63		11/09/20	15:21	BA	452037
Carbon Disulfide	ETO15	1.00	0.37	1.6	8.0	2.57		11/09/20	15:21	BA	452037
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		11/09/20	15:21	BA	452037
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		11/09/20	15:21	BA	452037
Acetone	ETO15	1.00	0.40	12	12	5.04		11/09/20	15:21	BA	452037
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		11/09/20	15:21	BA	452037
Hexane	ETO15	1.00	0.46	1.8	4.1	1.16		11/09/20	15:21	BA	452037
MTBE	ETO15	1.00	0.44	1.8	ND	ND		11/09/20	15:21	BA	452037
tert-Butanol	ETO15	1.00	0.62	1.5	7.3	2.41		11/09/20	15:21	BA	452037
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		11/09/20	15:21	BA	452037
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		11/09/20	15:21	BA	452037
ETBE	ETO15	1.00	0.33	2.1	ND	ND		11/09/20	15:21	BA	452037
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/09/20	15:21	BA	452037
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		11/09/20	15:21	BA	452037



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID: SG-32-10	Lab Sample ID: 2011049-002A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/05/20 / 7:52	Certified Clean WO # :
Canister/Tube ID: 6314	Received PSI : 12.9
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/9/20	7:00:00AM
Prep Batch ID: 1126930	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		11/09/20	15:21	BA	452037
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		11/09/20	15:21	BA	452037
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		11/09/20	15:21	BA	452037
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	ND	ND		11/09/20	15:21	BA	452037
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		11/09/20	15:21	BA	452037
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		11/09/20	15:21	BA	452037
Benzene	ETO15	1.00	0.44	1.6	ND	ND		11/09/20	15:21	BA	452037
TAME	ETO15	1.00	0.67	2.1	ND	ND		11/09/20	15:21	BA	452037
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		11/09/20	15:21	BA	452037
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		11/09/20	15:21	BA	452037
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		11/09/20	15:21	BA	452037
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		11/09/20	15:21	BA	452037
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		11/09/20	15:21	BA	452037
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		11/09/20	15:21	BA	452037
Toluene	ETO15	1.00	0.75	1.9	6.7	1.78		11/09/20	15:21	BA	452037
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		11/09/20	15:21	BA	452037
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		11/09/20	15:21	BA	452037
Tetrachloroethylene	ETO15	1.00	1.5	3.4	4.7	0.69		11/09/20	15:21	BA	452037
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		11/09/20	15:21	BA	452037
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		11/09/20	15:21	BA	452037
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		11/09/20	15:21	BA	452037
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		11/09/20	15:21	BA	452037
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		11/09/20	15:21	BA	452037
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		11/09/20	15:21	BA	452037
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		11/09/20	15:21	BA	452037
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		11/09/20	15:21	BA	452037
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		11/09/20	15:21	BA	452037
Styrene	ETO15	1.00	0.46	2.1	ND	ND		11/09/20	15:21	BA	452037
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		11/09/20	15:21	BA	452037
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		11/09/20	15:21	BA	452037
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		11/09/20	15:21	BA	452037
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		11/09/20	15:21	BA	452037
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		11/09/20	15:21	BA	452037



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID: SG-32-10	Lab Sample ID: 2011049-002A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/05/20 / 7:52	Certified Clean WO # :
Canister/Tube ID: 6314	Received PSI : 12.9
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/9/20	7:00:00AM
Prep Batch ID: 1126930	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		11/09/20	15:21	BA	452037
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		11/09/20	15:21	BA	452037
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		11/09/20	15:21	BA	452037
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		11/09/20	15:21	BA	452037
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		11/09/20	15:21	BA	452037
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		11/09/20	15:21	BA	452037
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	110 %			11/09/20	15:21	BA	452037



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID: SG-38-10	Lab Sample ID: 2011049-003A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/05/20 / 8:15	Certified Clean WO # :
Canister/Tube ID: N3950	Received PSI : 13.5
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: FG-P	Prep Batch Date/Time: 11/18/20 7:35:00PM
Prep Batch ID: 1127231	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	2.70	0.028	0.14	14			11/19/20	11:14	BP	452322
Methane	D1946	2.70	0.0063	0.014	ND			11/19/20	11:14	BP	452322

Prep Method: TO15-P	Prep Batch Date/Time: 11/9/20 7:00:00AM
Prep Batch ID: 1126930	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		11/09/20	15:46	BA	452037
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		11/09/20	15:46	BA	452037
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		11/09/20	15:46	BA	452037
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		11/09/20	15:46	BA	452037
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		11/09/20	15:46	BA	452037
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		11/09/20	15:46	BA	452037
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		11/09/20	15:46	BA	452037
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		11/09/20	15:46	BA	452037
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		11/09/20	15:46	BA	452037
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/09/20	15:46	BA	452037
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		11/09/20	15:46	BA	452037
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		11/09/20	15:46	BA	452037
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		11/09/20	15:46	BA	452037
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		11/09/20	15:46	BA	452037
Acetone	ETO15	1.00	0.40	12	ND	ND		11/09/20	15:46	BA	452037
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		11/09/20	15:46	BA	452037
Hexane	ETO15	1.00	0.46	1.8	ND	ND		11/09/20	15:46	BA	452037
MTBE	ETO15	1.00	0.44	1.8	ND	ND		11/09/20	15:46	BA	452037
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		11/09/20	15:46	BA	452037
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		11/09/20	15:46	BA	452037
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		11/09/20	15:46	BA	452037
ETBE	ETO15	1.00	0.33	2.1	ND	ND		11/09/20	15:46	BA	452037
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/09/20	15:46	BA	452037
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		11/09/20	15:46	BA	452037



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID: SG-38-10	Lab Sample ID: 2011049-003A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/05/20 / 8:15	Certified Clean WO # :
Canister/Tube ID: N3950	Received PSI : 13.5
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/9/20	7:00:00AM
Prep Batch ID: 1126930	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		11/09/20	15:46	BA	452037
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		11/09/20	15:46	BA	452037
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		11/09/20	15:46	BA	452037
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	ND	ND		11/09/20	15:46	BA	452037
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		11/09/20	15:46	BA	452037
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		11/09/20	15:46	BA	452037
Benzene	ETO15	1.00	0.44	1.6	ND	ND		11/09/20	15:46	BA	452037
TAME	ETO15	1.00	0.67	2.1	ND	ND		11/09/20	15:46	BA	452037
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		11/09/20	15:46	BA	452037
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		11/09/20	15:46	BA	452037
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		11/09/20	15:46	BA	452037
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		11/09/20	15:46	BA	452037
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		11/09/20	15:46	BA	452037
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		11/09/20	15:46	BA	452037
Toluene	ETO15	1.00	0.75	1.9	5.3	1.41		11/09/20	15:46	BA	452037
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		11/09/20	15:46	BA	452037
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		11/09/20	15:46	BA	452037
Tetrachloroethylene	ETO15	1.00	1.5	3.4	4.7	0.69		11/09/20	15:46	BA	452037
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		11/09/20	15:46	BA	452037
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		11/09/20	15:46	BA	452037
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		11/09/20	15:46	BA	452037
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		11/09/20	15:46	BA	452037
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		11/09/20	15:46	BA	452037
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		11/09/20	15:46	BA	452037
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		11/09/20	15:46	BA	452037
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		11/09/20	15:46	BA	452037
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		11/09/20	15:46	BA	452037
Styrene	ETO15	1.00	0.46	2.1	ND	ND		11/09/20	15:46	BA	452037
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		11/09/20	15:46	BA	452037
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		11/09/20	15:46	BA	452037
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		11/09/20	15:46	BA	452037
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		11/09/20	15:46	BA	452037
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		11/09/20	15:46	BA	452037



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID: SG-38-10	Lab Sample ID: 2011049-003A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/05/20 / 8:15	Certified Clean WO # :
Canister/Tube ID: N3950	Received PSI : 13.5
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/9/20	7:00:00AM
Prep Batch ID: 1126930	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		11/09/20	15:46	BA	452037
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		11/09/20	15:46	BA	452037
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		11/09/20	15:46	BA	452037
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		11/09/20	15:46	BA	452037
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		11/09/20	15:46	BA	452037
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		11/09/20	15:46	BA	452037
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	100 %			11/09/20	15:46	BA	452037



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID: SG-34-10	Lab Sample ID: 2011049-004A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/05/20 / 9:12	Certified Clean WO # :
Canister/Tube ID: 6106	Received PSI : 11.6
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: FG-P	Prep Batch Date/Time: 11/18/20 7:35:00PM
Prep Batch ID: 1127231	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	2.50	0.026	0.13	15			11/19/20	11:39	BP	452322
Methane	D1946	2.50	0.0059	0.013	ND			11/19/20	11:39	BP	452322

Prep Method: TO15-P	Prep Batch Date/Time: 11/9/20 7:00:00AM
Prep Batch ID: 1126930	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		11/09/20	16:15	BA	452037
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		11/09/20	16:15	BA	452037
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		11/09/20	16:15	BA	452037
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		11/09/20	16:15	BA	452037
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		11/09/20	16:15	BA	452037
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		11/09/20	16:15	BA	452037
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		11/09/20	16:15	BA	452037
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		11/09/20	16:15	BA	452037
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		11/09/20	16:15	BA	452037
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/09/20	16:15	BA	452037
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		11/09/20	16:15	BA	452037
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		11/09/20	16:15	BA	452037
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		11/09/20	16:15	BA	452037
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		11/09/20	16:15	BA	452037
Acetone	ETO15	1.00	0.40	12	ND	ND		11/09/20	16:15	BA	452037
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		11/09/20	16:15	BA	452037
Hexane	ETO15	1.00	0.46	1.8	ND	ND		11/09/20	16:15	BA	452037
MTBE	ETO15	1.00	0.44	1.8	ND	ND		11/09/20	16:15	BA	452037
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		11/09/20	16:15	BA	452037
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		11/09/20	16:15	BA	452037
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		11/09/20	16:15	BA	452037
ETBE	ETO15	1.00	0.33	2.1	ND	ND		11/09/20	16:15	BA	452037
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		11/09/20	16:15	BA	452037
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		11/09/20	16:15	BA	452037



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID: SG-34-10	Lab Sample ID: 2011049-004A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/05/20 / 9:12	Certified Clean WO # :
Canister/Tube ID: 6106	Received PSI : 11.6
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/9/20	7:00:00AM
Prep Batch ID: 1126930	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		11/09/20	16:15	BA	452037
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		11/09/20	16:15	BA	452037
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		11/09/20	16:15	BA	452037
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	ND	ND		11/09/20	16:15	BA	452037
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		11/09/20	16:15	BA	452037
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		11/09/20	16:15	BA	452037
Benzene	ETO15	1.00	0.44	1.6	ND	ND		11/09/20	16:15	BA	452037
TAME	ETO15	1.00	0.67	2.1	ND	ND		11/09/20	16:15	BA	452037
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		11/09/20	16:15	BA	452037
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		11/09/20	16:15	BA	452037
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		11/09/20	16:15	BA	452037
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		11/09/20	16:15	BA	452037
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		11/09/20	16:15	BA	452037
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		11/09/20	16:15	BA	452037
Toluene	ETO15	1.00	0.75	1.9	3.3	0.88		11/09/20	16:15	BA	452037
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		11/09/20	16:15	BA	452037
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		11/09/20	16:15	BA	452037
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		11/09/20	16:15	BA	452037
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		11/09/20	16:15	BA	452037
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		11/09/20	16:15	BA	452037
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		11/09/20	16:15	BA	452037
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		11/09/20	16:15	BA	452037
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		11/09/20	16:15	BA	452037
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		11/09/20	16:15	BA	452037
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		11/09/20	16:15	BA	452037
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		11/09/20	16:15	BA	452037
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		11/09/20	16:15	BA	452037
Styrene	ETO15	1.00	0.46	2.1	ND	ND		11/09/20	16:15	BA	452037
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		11/09/20	16:15	BA	452037
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		11/09/20	16:15	BA	452037
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		11/09/20	16:15	BA	452037
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		11/09/20	16:15	BA	452037
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		11/09/20	16:15	BA	452037



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID: SG-34-10	Lab Sample ID: 2011049-004A
Project Name/Location: Brindle Gate	Sample Matrix: Air
Project Number: 3359.210.001	
Date/Time Sampled: 11/05/20 / 9:12	Certified Clean WO # :
Canister/Tube ID: 6106	Received PSI : 11.6
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 11/9/20	7:00:00AM
Prep Batch ID: 1126930	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		11/09/20	16:15	BA	452037
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		11/09/20	16:15	BA	452037
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		11/09/20	16:15	BA	452037
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		11/09/20	16:15	BA	452037
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		11/09/20	16:15	BA	452037
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		11/09/20	16:15	BA	452037
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	100 %			11/09/20	16:15	BA	452037



MB Summary Report

Work Order:	2011049	Prep Method:	TO15-P	Prep Date:	11/09/20	Prep Batch:	1126930
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	11/9/2020	Analytical Batch:	452037
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.32	0.50	ND		
1,1-Difluoroethane	0.13	5.0	0.81		
1,2-Dichlorotetrafluoroethane	0.20	0.50	ND		
Chloromethane	0.99	2.0	ND		
Vinyl Chloride	0.088	0.50	ND		
1,3-Butadiene	0.15	0.50	ND		
Bromomethane	0.17	0.50	ND		
Chloroethane	0.31	0.50	ND		
Trichlorofluoromethane	0.099	0.50	ND		
1,1-Dichloroethene	0.21	0.50	ND		
Freon 113	0.13	0.50	ND		
Carbon Disulfide	0.12	0.50	0.13		
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND		
Methylene Chloride	0.20	3.0	ND		
Acetone	0.17	5.0	ND		
trans-1,2-Dichloroethene	0.12	0.50	ND		
Hexane	0.13	0.50	ND		
MTBE	0.12	0.50	ND		
tert-Butanol	0.20	0.50	ND		
Diisopropyl ether (DIPE)	0.18	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.078	0.50	ND		
cis-1,2-Dichloroethene	0.21	0.50	ND		
Chloroform	0.20	0.50	ND		
Vinyl Acetate	0.22	0.50	ND		
Carbon Tetrachloride	0.18	0.50	ND		
1,1,1-Trichloroethane	0.15	0.50	ND		
2-Butanone (MEK)	0.13	0.50	ND		
Ethyl Acetate	0.13	0.50	0.30		
Tetrahydrofuran	0.15	0.50	ND		
Benzene	0.14	0.50	ND		
TAME	0.16	0.50	ND		
1,2-Dichloroethane (EDC)	0.10	0.50	ND		
Trichloroethylene	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.11	0.50	ND		
1,4-Dioxane	0.50	1.0	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
Toluene	0.20	0.50	0.27		
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	ND		
cis-1,3-Dichloropropene	0.093	0.50	ND		
Tetrachloroethylene	0.22	0.50	ND		



MB Summary Report

Work Order:	2011049	Prep Method:	TO15-P	Prep Date:	11/09/20	Prep Batch:	1126930
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	11/9/2020	Analytical Batch:	452037
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
1,1,2-Trichloroethane	0.11	0.50	ND		
Dibromochloromethane	0.13	0.50	ND		
1,2-Dibromoethane (EDB)	0.096	0.50	ND		
2-Hexanone	0.16	0.50	ND		
Ethyl Benzene	0.15	0.50	ND		
Chlorobenzene	0.13	0.50	ND		
1,1,1,2-Tetrachloroethane	0.12	0.50	ND		
m,p-Xylene	0.23	0.50	ND		
o-Xylene	0.070	0.50	ND		
Styrene	0.11	0.50	ND		
Bromoform	0.13	0.50	ND		
1,1,2,2-Tetrachloroethane	0.12	0.50	ND		
4-Ethyl Toluene	0.11	0.50	ND		
1,3,5-Trimethylbenzene	0.061	0.50	ND		
1,2,4-Trimethylbenzene	0.12	0.50	ND		
1,4-Dichlorobenzene	0.12	0.50	ND		
1,3-Dichlorobenzene	0.22	0.50	ND		
1,2-Dichlorobenzene	0.18	0.50	ND		
Hexachlorobutadiene	0.17	0.50	ND		
1,2,4-Trichlorobenzene	0.29	0.50	ND		
Naphthalene	0.24	0.50	ND		
Cyclohexane	0.50	0.50	ND		
Benzyl Chloride	0.20	0.50	ND		
Heptane	0.13	0.50	0.23		
(S) 4-Bromofluorobenzene			91		

Work Order:	2011049	Prep Method:	FG-P	Prep Date:	11/18/20	Prep Batch:	1127231
Matrix:	Air	Analytical Method:	D1946	Analyzed Date:	11/18/2020	Analytical Batch:	452322
Units:	ppmv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Carbon Dioxide	100	500	ND		
Ethene	110	500	ND		
Ethane	130	500	ND		
Hydrogen	180	500	ND		
Oxygen	110	500	ND		
Nitrogen	260	500	ND		
Methane	23	50	ND		
Carbon Monoxide	200	500	ND		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011049	Prep Method:	TO15-P	Prep Date:	11/09/20	Prep Batch:	1126930
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	11/9/2020	Analytical Batch:	452037
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	129	126	1.96	65 - 135	30	
Benzene	0.14	0.50	0.81	8.00	117	115	1.83	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	99.8	100	0.500	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	97.2	97.2	0.000	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	106	105	0.475	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	90.9	90.7		50 - 150		

Work Order:	2011049	Prep Method:	FG-P	Prep Date:	11/18/20	Prep Batch:	1127231
Matrix:	Air	Analytical Method:	D1946	Analyzed Date:	11/19/2020	Analytical Batch:	452322
Units:	ppmv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Carbon Dioxide	100	500	ND	2500	81.8	76.6	6.06	65 - 135	30	
Ethene	110	500	ND	2500	77.4	80.8	4.56	65 - 135	30	
Ethane	130	500	ND	2500	77.6	81.1	4.53	65 - 135	30	
Hydrogen	180	500	ND	2500	94.4	86.9	8.39	65 - 135	30	
Oxygen	110	500	ND	2500	106	100	6.20	65 - 135	30	
Nitrogen	260	500	ND	2500	118	113	3.81	65 - 135	30	
Methane	230	500	ND	2500	96.2	83.9	13.3	65 - 135	30	
Carbon Monoxide	200	500	ND	2500	100	89.9	10.5	65 - 135	30	



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 11/5/2020 2:05:00PM

Project Name: Brindle Gate

Received By: Lorna Imbat

Work Order No.: 2011049

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Temperature: °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: n/a pH Adjusted by: n/a

Comments:



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/20/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/5/2020
Time Received: 2:05 pm

Comments:

Work Order # : **2011049**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011049-001A	SG-36-10	11/05/20 7:31	Air				VOC_A_TO15 VOC_A_FG D1946	
2011049-002A	SG-32-10	11/05/20 7:52	Air				VOC_A_TO15 VOC_A_FG D1946	
2011049-003A	SG-38-10	11/05/20 8:15	Air				VOC_A_TO15 VOC_A_FG D1946	
2011049-004A	SG-34-10	11/05/20 9:12	Air				VOC_A_TO15 VOC_A_FG D1946	



CHAIN OF CUSTODY RECORD

2011049

PROJECT NUMBER 3359.210.001		PROJECT NAME Brindle Gate					REMARKS REQUIRED DETECTION LIMITS
SAMPLED BY: (SIGNATURE/PRINT) Taunee Werts							
PROJECT MANAGER: (SIGNATURE/PRINT) Brooke Spruit							
ROUTING: E-MAIL Bspruit, twerts, smunger@engco.com							
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	
SG-30-10	11/5/20	07:31	AIR	1	2L	N/A	X TO-15
SG-32-10	↓	07:52	↓	↓	↓	↓	X
SG-38-10	↓	08:15	↓	↓	↓	↓	X
SG-34-10	↓	09:12	↓	↓	↓	↓	X
SG-31-10							not enough to sample
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
<i>[Signature]</i>		11/5/20 10:05	FCS (courier)				
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
FCS (courier)		11/5/20 1405	<i>[Signature]</i>				
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME	REMARKS	

ENGEO
INCORPORATED

2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

FCS

Summa canisters rec'd at ambient temperature.

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT, COPY TO PROJECT FIELD FILES



Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: Brindle Gate

Work Order No.: 2011051

Dear Brooke Spruit:

Torrent Laboratory, Inc. received 20 sample(s) on November 05, 2020 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink that reads "Kathie Evans". The signature is written in a cursive style and is positioned above a horizontal line.

Kathie Evans
Project Manager

November 10, 2020

Date



Date: 11/10/2020

Client: Engeo (San Ramon)

Project: Brindle Gate

Work Order: 2011051

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.



Sample Result Summary

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date Received: 11/05/20

Date Reported: 11/10/20

S-32-10-S @ 5'

2011051-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.51	mg/Kg

S-32-10-S @ 10'

2011051-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	4	3.4	8.0	25.3	mg/Kg
TPH as Motor Oil (SG)	SW8015B	4	13	40	161	mg/Kg

S-32-10-W @ 5'

2011051-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	5.78	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	29.8	mg/Kg

S-32-10-W@10'

2011051-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

All compounds were non-detectable for this sample.

S-32-10-N @ 5'

2011051-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.55	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	13.2	mg/Kg

S-32-10-N @10'

2011051-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	8.17	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	84.5	mg/Kg

S-32-10-E @ 5'

2011051-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.69	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	15.1	mg/Kg

S-32-10-E @10"

2011051-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

All compounds were non-detectable for this sample.



Sample Result Summary

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date Received: 11/05/20

Date Reported: 11/10/20

S-32-10-C @ 5'

2011051-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	2	1.7	4.0	19.7	mg/Kg
TPH as Motor Oil (SG)	SW8015B	2	6.4	20	94.0	mg/Kg

S-32-10-C@10'

2011051-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.09	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	16.7	mg/Kg

S-38-10-E @ 5'

2011051-011

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.45	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	39.3	mg/Kg

S-38-10-E @ 10"

2011051-012

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.18	mg/Kg

S-38-10-S @ 5'

2011051-013

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	9.67	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	51.6	mg/Kg

S-38-10-S @ 10'

2011051-014

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

S-38-10-W @ 5'

2011051-015

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

S-38-10-W@10'

2011051-016

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

S-38-10-N @ 5'

2011051-017

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.13	mg/Kg



Sample Result Summary

Report prepared for: Brooke Spruit
 Engeo (San Ramon)

Date Received: 11/05/20

Date Reported: 11/10/20

S-38-10-N@10'

2011051-018

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
--------------------	------------------------	-----------	------------	------------	----------------	-------------

All compounds were non-detectable for this sample.

S-38-10-C @ 5'

2011051-019

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.78	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	17.4	mg/Kg

S-38-10-C@10'

2011051-020

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	7.74	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	29.6	mg/Kg



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-32-10-S @ 5'	Lab Sample ID:	2011051-001A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 7:58		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.51	x	mg/Kg	11/08/20	19:23	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/08/20	19:23	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		75.1		%	11/08/20	19:23	SN	452026

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	14:07	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	14:07	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	14:07	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	14:07	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	14:07	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	14:07	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		79.4		%	11/09/20	14:07	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		97.3		%	11/09/20	14:07	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		83.6		%	11/09/20	14:07	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	14:07	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		89.1		%	11/09/20	14:07	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-32-10-S @ 10'	Lab Sample ID:	2011051-002A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 8:01		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	4	3.4	8.0	25.3	x	mg/Kg	11/09/20	14:59	SN	452027
TPH as Motor Oil (SG)	SW8015B	4	13	40	161		mg/Kg	11/09/20	14:59	SN	452027
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		41.4		%	11/09/20	14:59	SN	452027

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	14:36	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	14:36	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	14:36	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	14:36	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	14:36	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	14:36	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		75.7		%	11/09/20	14:36	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		104		%	11/09/20	14:36	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		80.5		%	11/09/20	14:36	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	14:36	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		75.3		%	11/09/20	14:36	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-32-10-W @ 5'	Lab Sample ID:	2011051-003A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 8:04		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	5.78	x	mg/Kg	11/08/20	20:09	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	29.8		mg/Kg	11/08/20	20:09	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		72.8		%	11/08/20	20:09	SN	452026

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	15:05	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	15:05	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	15:05	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	15:05	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	15:05	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	15:05	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		75.2		%	11/09/20	15:05	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		99.4		%	11/09/20	15:05	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		81.7		%	11/09/20	15:05	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	15:05	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		83.9		%	11/09/20	15:05	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-32-10-W@10'	Lab Sample ID:	2011051-004A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 8:07		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/08/20	20:32	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/08/20	20:32	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		72.6		%	11/08/20	20:32	SN	452026

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	15:35	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	15:35	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	15:35	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	15:35	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	15:35	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	15:35	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		76.7		%	11/09/20	15:35	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		95.7		%	11/09/20	15:35	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		79.9		%	11/09/20	15:35	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	15:35	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		86.7		%	11/09/20	15:35	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-32-10-N @ 5'	Lab Sample ID:	2011051-005A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 8:09		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.55	x	mg/Kg	11/08/20	20:55	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	13.2		mg/Kg	11/08/20	20:55	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		75.7		%	11/08/20	20:55	SN	452026

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	16:04	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	16:04	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	16:04	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	16:04	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	16:04	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	16:04	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		68.3		%	11/09/20	16:04	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		94.7		%	11/09/20	16:04	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		81.2		%	11/09/20	16:04	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	16:04	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		86.0		%	11/09/20	16:04	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-32-10-N @10'	Lab Sample ID:	2011051-006A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 8:11		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	8.17	x	mg/Kg	11/08/20	21:19	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	84.5		mg/Kg	11/08/20	21:19	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		56.3		%	11/08/20	21:19	SN	452026

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	16:33	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	16:33	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	16:33	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	16:33	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	16:33	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	16:33	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		68.6		%	11/09/20	16:33	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		94.3		%	11/09/20	16:33	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		79.8		%	11/09/20	16:33	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	16:33	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		84.8		%	11/09/20	16:33	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-32-10-E @ 5'	Lab Sample ID:	2011051-007A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 8:14		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.69	x	mg/Kg	11/08/20	21:42	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	15.1		mg/Kg	11/08/20	21:42	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		63.7		%	11/08/20	21:42	SN	452026

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	17:02	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	17:02	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	17:02	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	17:02	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	17:02	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	17:02	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		66.4		%	11/09/20	17:02	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		95.3		%	11/09/20	17:02	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		80.7		%	11/09/20	17:02	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	17:02	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		87.5		%	11/09/20	17:02	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-32-10-E @10"	Lab Sample ID:	2011051-008A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 8:15		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/08/20	22:05	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/08/20	22:05	SN	452026
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		73.1		%	11/08/20	22:05	SN	452026

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	17:32	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	17:32	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	17:32	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	17:32	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	17:32	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	17:32	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		69.6		%	11/09/20	17:32	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		98.5		%	11/09/20	17:32	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		79.5		%	11/09/20	17:32	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	17:32	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		74.4		%	11/09/20	17:32	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-32-10-C @ 5'	Lab Sample ID:	2011051-009A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 8:29		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	2	1.7	4.0	19.7	x	mg/Kg	11/09/20	15:22	SN	452027
TPH as Motor Oil (SG)	SW8015B	2	6.4	20	94.0		mg/Kg	11/09/20	15:22	SN	452027
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		71.1		%	11/09/20	15:22	SN	452027

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	18:01	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	18:01	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	18:01	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	18:01	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	18:01	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	18:01	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		70.6		%	11/09/20	18:01	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		91.7		%	11/09/20	18:01	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		76.3		%	11/09/20	18:01	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	18:01	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		82.0		%	11/09/20	18:01	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-32-10-C@10'	Lab Sample ID:	2011051-010A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 8:30		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.09	x	mg/Kg	11/08/20	22:51	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	16.7		mg/Kg	11/08/20	22:51	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		65.4		%	11/08/20	22:51	SN	452026

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	18:30	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	18:30	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	18:30	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	18:30	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	18:30	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	18:30	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		65.8		%	11/09/20	18:30	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		92.9		%	11/09/20	18:30	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		78.0		%	11/09/20	18:30	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	18:30	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		80.4		%	11/09/20	18:30	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-38-10-E @ 5'	Lab Sample ID:	2011051-011A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 9:11		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.45	x	mg/Kg	11/09/20	0:01	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	39.3		mg/Kg	11/09/20	0:01	SN	452026
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		59.0		%	11/09/20	0:01	SN	452026

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	18:59	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	18:59	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	18:59	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	18:59	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	18:59	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	18:59	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		68.5		%	11/09/20	18:59	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		93.2		%	11/09/20	18:59	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		79.6		%	11/09/20	18:59	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	18:59	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		74.5		%	11/09/20	18:59	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-38-10-E @ 10"	Lab Sample ID:	2011051-012A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 9:14		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.18	x	mg/Kg	11/09/20	0:24	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/09/20	0:24	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		46.3		%	11/09/20	0:24	SN	452026

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel and presence of discrete peaks.

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	19:28	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	19:28	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	19:28	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	19:28	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	19:28	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	19:28	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		68.5		%	11/09/20	19:28	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		93.1		%	11/09/20	19:28	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		82.0		%	11/09/20	19:28	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	19:28	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		87.4		%	11/09/20	19:28	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-38-10-S @ 5'	Lab Sample ID:	2011051-013A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 9:17		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	9.67	x	mg/Kg	11/09/20	0:47	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	51.6		mg/Kg	11/09/20	0:47	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		74.7		%	11/09/20	0:47	SN	452026

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126887	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	19:57	AD	452009
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	19:57	AD	452009
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	19:57	AD	452009
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	19:57	AD	452009
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	19:57	AD	452009
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	19:57	AD	452009
(S) Dibromofluoromethane	SW8260B		59.8 - 148		69.5		%	11/09/20	19:57	AD	452009
(S) Toluene-d8	SW8260B		55.2 - 133		95.0		%	11/09/20	19:57	AD	452009
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		80.2		%	11/09/20	19:57	AD	452009

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	9:49:00AM
Prep Batch ID: 1126888	Prep Analyst:	ADEB

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	19:57	AD	452009
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		77.6		%	11/09/20	19:57	AD	452009



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-38-10-S @ 10'	Lab Sample ID:	2011051-014A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 9:19		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/09/20	1:10	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/09/20	1:10	SN	452026
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		63.4		%	11/09/20	1:10	SN	452026

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126894	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	19:15	JZ	452015
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	19:15	JZ	452015
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	19:15	JZ	452015
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	19:15	JZ	452015
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	19:15	JZ	452015
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	19:15	JZ	452015
(S) Dibromofluoromethane	SW8260B		59.8 - 148		148		%	11/09/20	19:15	JZ	452015
(S) Toluene-d8	SW8260B		55.2 - 133		114		%	11/09/20	19:15	JZ	452015
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		108		%	11/09/20	19:15	JZ	452015

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126895	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	19:15	JZ	452015
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		45.1		%	11/09/20	19:15	JZ	452015



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-38-10-W @ 5'	Lab Sample ID:	2011051-015A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 9:25		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/09/20	1:33	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/09/20	1:33	SN	452026
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		75.3		%	11/09/20	1:33	SN	452026

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126894	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	13:43	JZ	452015
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	13:43	JZ	452015
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	13:43	JZ	452015
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	13:43	JZ	452015
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	13:43	JZ	452015
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	13:43	JZ	452015
(S) Dibromofluoromethane	SW8260B		59.8 - 148		126		%	11/09/20	13:43	JZ	452015
(S) Toluene-d8	SW8260B		55.2 - 133		115		%	11/09/20	13:43	JZ	452015
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		110		%	11/09/20	13:43	JZ	452015

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126895	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	13:43	JZ	452015
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		69.2		%	11/09/20	13:43	JZ	452015



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-38-10-W@10'	Lab Sample ID:	2011051-016A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 9:29		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/09/20	1:56	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/09/20	1:56	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		58.8		%	11/09/20	1:56	SN	452026

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126894	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	14:20	JZ	452015
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	14:20	JZ	452015
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	14:20	JZ	452015
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	14:20	JZ	452015
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	14:20	JZ	452015
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	14:20	JZ	452015
(S) Dibromofluoromethane	SW8260B		59.8 - 148		125		%	11/09/20	14:20	JZ	452015
(S) Toluene-d8	SW8260B		55.2 - 133		117		%	11/09/20	14:20	JZ	452015
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		111		%	11/09/20	14:20	JZ	452015

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126895	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	14:20	JZ	452015
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		87.8		%	11/09/20	14:20	JZ	452015



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-38-10-N @ 5'	Lab Sample ID:	2011051-017A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 9:33		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.13	x	mg/Kg	11/09/20	2:19	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/09/20	2:19	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		73.2		%	11/09/20	2:19	SN	452026

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126894	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	14:50	JZ	452015
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	14:50	JZ	452015
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	14:50	JZ	452015
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	14:50	JZ	452015
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	14:50	JZ	452015
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	14:50	JZ	452015
(S) Dibromofluoromethane	SW8260B		59.8 - 148		133		%	11/09/20	14:50	JZ	452015
(S) Toluene-d8	SW8260B		55.2 - 133		117		%	11/09/20	14:50	JZ	452015
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		115		%	11/09/20	14:50	JZ	452015

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126895	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	14:50	JZ	452015
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		74.8		%	11/09/20	14:50	JZ	452015



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-38-10-N@10'	Lab Sample ID:	2011051-018A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 9:34		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	11/09/20	2:42	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	11/09/20	2:42	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		76.8		%	11/09/20	2:42	SN	452026

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126894	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	15:19	JZ	452015
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	15:19	JZ	452015
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	15:19	JZ	452015
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	15:19	JZ	452015
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	15:19	JZ	452015
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	15:19	JZ	452015
(S) Dibromofluoromethane	SW8260B		59.8 - 148		132		%	11/09/20	15:19	JZ	452015
(S) Toluene-d8	SW8260B		55.2 - 133		115		%	11/09/20	15:19	JZ	452015
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		110		%	11/09/20	15:19	JZ	452015

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126895	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	15:19	JZ	452015
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		63.9		%	11/09/20	15:19	JZ	452015



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-38-10-C @ 5'	Lab Sample ID:	2011051-019A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 9:47		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.78	x	mg/Kg	11/09/20	3:06	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	17.4		mg/Kg	11/09/20	3:06	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		59.6		%	11/09/20	3:06	SN	452026

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126894	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	15:48	JZ	452015
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	15:48	JZ	452015
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	15:48	JZ	452015
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	15:48	JZ	452015
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	15:48	JZ	452015
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	15:48	JZ	452015
(S) Dibromofluoromethane	SW8260B		59.8 - 148		134		%	11/09/20	15:48	JZ	452015
(S) Toluene-d8	SW8260B		55.2 - 133		118		%	11/09/20	15:48	JZ	452015
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		112		%	11/09/20	15:48	JZ	452015

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126895	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	15:48	JZ	452015
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		67.8		%	11/09/20	15:48	JZ	452015



SAMPLE RESULTS

Report prepared for: Brooke Spruit
Engeo (San Ramon)

Date/Time Received: 11/05/20, 2:05 pm
Date Reported: 11/10/20

Client Sample ID:	S-38-10-C@10'	Lab Sample ID:	2011051-020A
Project Name/Location:	Brindle Gate	Sample Matrix:	Soil
Project Number:	3359.210.001		
Date/Time Sampled:	11/04/20 / 9:48		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 11/6/20	2:26:00PM
Prep Batch ID: 1126841	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	7.74	x	mg/Kg	11/09/20	3:29	SN	452026
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	29.6		mg/Kg	11/09/20	3:29	SN	452026
Acceptance Limits											
Pentacosane (S)	SW8015B		40 - 129		72.3		%	11/09/20	3:29	SN	452026

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range

Prep Method: 5035	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126894	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
MTBE	SW8260B	1	0.0023	0.010	ND		mg/Kg	11/09/20	16:17	JZ	452015
Benzene	SW8260B	1	0.0022	0.010	ND		mg/Kg	11/09/20	16:17	JZ	452015
Toluene	SW8260B	1	0.0018	0.010	ND		mg/Kg	11/09/20	16:17	JZ	452015
Ethylbenzene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	16:17	JZ	452015
m,p-Xylene	SW8260B	1	0.0032	0.010	ND		mg/Kg	11/09/20	16:17	JZ	452015
o-Xylene	SW8260B	1	0.0017	0.010	ND		mg/Kg	11/09/20	16:17	JZ	452015
(S) Dibromofluoromethane	SW8260B		59.8 - 148		133		%	11/09/20	16:17	JZ	452015
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	11/09/20	16:17	JZ	452015
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		116		%	11/09/20	16:17	JZ	452015

Prep Method: 5035GRO	Prep Batch Date/Time: 11/9/20	10:34:00AM
Prep Batch ID: 1126895	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	8260TPH	1	0.043	0.10	ND		mg/Kg	11/09/20	16:17	JZ	452015
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		66.9		%	11/09/20	16:17	JZ	452015



MB Summary Report

Work Order:	2011051	Prep Method:	3546_TPHSG	Prep Date:	11/06/20	Prep Batch:	1126841
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/8/2020	Analytical Batch:	452026
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Diesel (SG)	0.85	2.0	ND		
TPH as Motor Oil (SG)	3.2	10	ND		
Pentacosane (S)			99.2		

Work Order:	2011051	Prep Method:	5035	Prep Date:	11/09/20	Prep Batch:	1126887
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452009
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	1.2	10	ND		
Chloromethane	1.8	10	ND		
Vinyl Chloride	2.0	10	ND		
Bromomethane	2.7	10	ND		
Chloroethane	3.0	10	ND		
Trichlorofluoromethane	2.1	10	ND		
1,1-Dichloroethene	2.0	10	ND		
Freon 113	1.9	10	ND		
Methylene Chloride	7.1	10	ND		
trans-1,2-Dichloroethene	2.1	10	ND		
MTBE	2.3	10	ND		
TBA	12	50	ND		
Diisopropyl ether	2.3	10	ND		
1,1-Dichloroethane	2.2	10	ND		
Ethyl tert-Butyl ether	2.3	10	ND		
cis-1,2-Dichloroethene	2.2	10	ND		
2,2-Dichloropropane	1.9	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	2.4	10	ND		
Carbon Tetrachloride	2.1	10	ND		
1,1,1-Trichloroethane	2.1	10	ND		
1,1-Dichloropropene	2.0	10	ND		
Benzene	2.2	10	ND		
TAME	2.3	10	ND		
1,2-Dichloroethane	2.3	10	ND		
Trichloroethylene	1.8	10	ND		
Dibromomethane	1.8	10	ND		
1,2-Dichloropropane	1.9	10	ND		
Bromodichloromethane	2.0	10	ND		
cis-1,3-Dichloropropene	1.6	10	ND		



MB Summary Report

Work Order:	2011051	Prep Method:	5035	Prep Date:	11/09/20	Prep Batch:	1126887
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452009
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethylbenzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		
o-Xylene	1.7	10	ND		
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	1.6		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	1.9		
1,2,4-Trichlorobenzene	1.5	10	2.2		
Naphthalene	1.7	10	2.6		
1,2,3-Trichlorobenzene	1.7	10	2.5		
2-Butanone	2.3	10	ND		
4-Methyl-2-Pentanone (MIBK)	2.0	50	ND		
Hexachloroethane	5.0	10	ND		
1,4-Dioxane	100	200	ND		
2-Hexanone	5.0	20	ND		
Acetone	8.2	20	ND		
(S) Dibromofluoromethane			84.6		



MB Summary Report

Work Order:	2011051	Prep Method:	5035	Prep Date:	11/09/20	Prep Batch:	1126887
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452009
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
(S) Toluene-d8			93.4	
(S) 4-Bromofluorobenzene			80.0	

Work Order:	2011051	Prep Method:	5035GRO	Prep Date:	11/09/20	Prep Batch:	1126888
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452009
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	43	100	ND	
(S) 4-Bromofluorobenzene			96.2	



MB Summary Report

Work Order:	2011051	Prep Method:	5035	Prep Date:	11/09/20	Prep Batch:	1126894
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452015
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.0012	0.010	ND		
Chloromethane	0.0018	0.010	ND		
Vinyl Chloride	0.0020	0.010	ND		
Bromomethane	0.0027	0.010	ND		
Chloroethane	0.0030	0.010	ND		
Trichlorofluoromethane	0.0021	0.010	ND		
1,1-Dichloroethene	0.0020	0.010	ND		
Freon 113	0.0019	0.010	ND		
Methylene Chloride	0.0071	0.010	ND		
trans-1,2-Dichloroethene	0.0021	0.010	ND		
MTBE	0.0023	0.010	ND		
TBA	0.012	0.050	ND		
Diisopropyl ether	0.0023	0.010	ND		
1,1-Dichloroethane	0.0022	0.010	ND		
Ethyl tert-Butyl ether	0.0023	0.010	ND		
cis-1,2-Dichloroethene	0.0022	0.010	ND		
2,2-Dichloropropane	0.0019	0.010	ND		
Bromochloromethane	0.0023	0.010	ND		
Chloroform	0.0024	0.010	ND		
Carbon Tetrachloride	0.0021	0.010	ND		
1,1,1-Trichloroethane	0.0021	0.010	ND		
1,1-Dichloropropene	0.0020	0.010	ND		
Benzene	0.0022	0.010	ND		
TAME	0.0023	0.010	ND		
1,2-Dichloroethane	0.0023	0.010	ND		
Trichloroethylene	0.0018	0.010	ND		
Dibromomethane	0.0018	0.010	ND		
1,2-Dichloropropane	0.0019	0.010	ND		
Bromodichloromethane	0.0020	0.010	ND		
cis-1,3-Dichloropropene	0.0016	0.010	ND		
Toluene	0.0018	0.010	ND		
Tetrachloroethylene	0.0017	0.010	ND		
trans-1,3-Dichloropropene	0.0016	0.010	ND		
1,1,2-Trichloroethane	0.0018	0.010	ND		
Dibromochloromethane	0.0019	0.010	ND		
1,3-Dichloropropane	0.0018	0.010	ND		
1,2-Dibromoethane	0.0018	0.010	ND		
Chlorobenzene	0.0018	0.010	ND		
Ethylbenzene	0.0017	0.010	ND		
1,1,1,2-Tetrachloroethane	0.0019	0.010	ND		
m,p-Xylene	0.0032	0.010	ND		
o-Xylene	0.0017	0.010	ND		



MB Summary Report

Work Order:	2011051	Prep Method:	5035	Prep Date:	11/09/20	Prep Batch:	1126894
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452015
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.0016	0.010	ND		
Bromoform	0.0017	0.010	ND		
Isopropyl Benzene	0.0016	0.010	ND		
n-Propylbenzene	0.0016	0.010	ND		
Bromobenzene	0.0018	0.010	ND		
1,1,2,2-Tetrachloroethane	0.0019	0.010	ND		
2-Chlorotoluene	0.0018	0.010	ND		
1,3,5-Trimethylbenzene	0.0016	0.010	ND		
1,2,3-Trichloropropane	0.0019	0.010	ND		
4-Chlorotoluene	0.0016	0.010	ND		
tert-Butylbenzene	0.0016	0.010	ND		
1,2,4-Trimethylbenzene	0.0014	0.010	ND		
sec-Butyl Benzene	0.0016	0.010	ND		
p-Isopropyltoluene	0.0015	0.010	ND		
1,3-Dichlorobenzene	0.0017	0.010	ND		
1,4-Dichlorobenzene	0.0017	0.010	ND		
n-Butylbenzene	0.0015	0.010	ND		
1,2-Dichlorobenzene	0.0018	0.010	ND		
1,2-Dibromo-3-Chloropropane	0.0018	0.010	ND		
Hexachlorobutadiene	0.0014	0.010	ND		
1,2,4-Trichlorobenzene	0.0015	0.010	ND		
Naphthalene	0.0017	0.010	0.0058		
1,2,3-Trichlorobenzene	0.0017	0.010	ND		
2-Butanone	0.0023	0.010	ND		
(S) Dibromofluoromethane			110		
(S) Toluene-d8			104		
(S) 4-Bromofluorobenzene			97.6		

Work Order:	2011051	Prep Method:	5035GRO	Prep Date:	11/09/20	Prep Batch:	1126895
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452015
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Gasoline	43	100	ND		
(S) 4-Bromofluorobenzene			61.4		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011051	Prep Method:	3546_TPHSG	Prep Date:	11/06/20	Prep Batch:	1126841
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/8/2020	Analytical Batch:	452026
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.85	2.0	ND	25.0	65.0	69.0	6.57	40 - 110	30	
Pentacosane (S)			ND	200	100	102		40 - 129		

Work Order:	2011051	Prep Method:	5035	Prep Date:	11/09/20	Prep Batch:	1126887
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452009
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	97.2	88.8	9.03	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	106	101	5.04	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	98.5	90.6	8.25	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	102	93.2	9.21	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	97.3	93.1	4.62	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	97.7	95.0		59.8 - 148		
(S) Toluene-d8				50.0	107	98.9		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	87.7	83.3		55.8 - 141		

Work Order:	2011051	Prep Method:	5035	Prep Date:	11/09/20	Prep Batch:	1126887
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452009
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0		50.0	105	99.2	5.30	70 - 130	30	
Benzene	2.2	10		50.0	106	101	5.04	66.5 - 135	30	
Ethylbenzene	1.65	10.0		50.0	98.6	91.5	7.36	70 - 130	30	
Toluene	1.82	10		50.0	102	93.2	9.21	56.8 - 134	30	
m,p-Xylene	3.16	10.0		100	93.2	85.6	8.50	70 - 130	30	
o-Xylene	1.73	10.0		50.0	93.1	88.0	5.74	70 - 130	30	
(S) Dibromofluoromethane				50.0	97.7	95.0		59.8 - 148		
(S) Toluene-d8				50.0	107	98.9		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	87.7	83.3		55.8 - 141		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011051	Prep Method:	5035GRO	Prep Date:	11/09/20	Prep Batch:	1126888
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452009
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	116	106	9.01	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	96.0	93.5		43.9 - 127		

Work Order:	2011051	Prep Method:	5035	Prep Date:	11/09/20	Prep Batch:	1126894
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452015
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	82.7	79.6	3.70	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	91.6	91.4	0.219	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	97.0	97.6	0.617	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	105	104	1.15	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	98.5	98.8	0.203	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	92.1	91.9		59.8 - 148		
(S) Toluene-d8				50.0	101	102		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	97.3	97.9		55.8 - 141		

Work Order:	2011051	Prep Method:	5035	Prep Date:	11/09/20	Prep Batch:	1126894
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452015
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
MTBE	2.34	10.0		50.0	85.0	90.0	5.71	70 - 130	30	
Benzene	2.2	10		50.0	91.6	91.4	0.219	66.5 - 135	30	
Ethylbenzene	1.65	10.0		50.0	104	103	0.193	70 - 130	30	
Toluene	1.82	10		50.0	105	104	1.15	56.8 - 134	30	
m,p-Xylene	3.16	10.0		100	109	109	0.000	70 - 130	30	
o-Xylene	1.73	10.0		50.0	93.4	97.1	3.99	70 - 130	30	
(S) Dibromofluoromethane				50.0	92.1	91.9		59.8 - 148		
(S) Toluene-d8				50.0	101	102		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	97.3	97.9		55.8 - 141		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011051	Prep Method:	5035GRO	Prep Date:	11/09/20	Prep Batch:	1126895
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452015
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	95.1	90.8	4.63	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	100	90.9		43.9 - 127		



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2011051	Prep Method:	3546_TPHSG	Prep Date:	11/06/20	Prep Batch:	1126841
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/9/2020	Analytical Batch:	452026
Spiked Sample:	2011051-015A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.850	2.00	ND	25.0	60.2	60.2	0.000	40 - 110	30	
Pentacosane (S)				200	86.3	87.6		40 - 129		

Work Order:	2011051	Prep Method:	5035	Prep Date:	11/09/20	Prep Batch:	1126887
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	11/9/2020	Analytical Batch:	452009
Spiked Sample:	2011051-005A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.0020	0.010	ND	0.05	81.2	90.1	10.5	55 - 125	30	
Benzene	0.0022	0.010	ND	0.05	92.7	102	9.64	55 - 125	30	
Trichloroethylene	0.0018	0.010	ND	0.05	92.9	88.1	4.72	55 - 125	30	
Toluene	0.0018	0.010	ND	0.05	85.4	89.3	4.50	55 - 125	30	
Chlorobenzene	0.0018	0.010	ND	0.05	89.8	94.2	4.56	55 - 125	30	
(S) Dibromofluoromethane				50	69.0	86.8		59.8 - 148		
(S) Toluene-d8				50	97.6	91.9		55.2 - 133		
(S) 4-Bromofluorobenzene				50	83.6	82.8		55.8 - 141		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 11/5/2020 2:05:00PM

Project Name: Brindle Gate

Received By: Lorna Imbat

Work Order No.: 2011051

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Yes Temperature: 2.0 °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: N/A pH Adjusted by: N/A

Comments:

sample 2011051-005A- 2 sleeves rec'd labeled S-32-10-N@10'; the one with the time of 8:09 was given the ID of 005 S-32-10N@ 5'



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/10/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/5/2020
Time Received: 2:05 pm

Comments:

Work Order # : 2011051

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011051-001A	S-32-10-S @ 5'	11/04/20 7:58	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
Sample Note:	BTEXM,TPHg							
2011051-002A	S-32-10-S @ 10'	11/04/20 8:01	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-003A	S-32-10-W @ 5'	11/04/20 8:04	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-004A	S-32-10-W@10'	11/04/20 8:07	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-005A	S-32-10-N @ 5'	11/04/20 8:09	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-006A	S-32-10-N @10'	11/04/20 8:11	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-007A	S-32-10-E @ 5'	11/04/20 8:14	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-008A	S-32-10-E @10"	11/04/20 8:15	Soil	05/03/21			TPHDOSG_S_8015B	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/10/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/5/2020
Time Received: 2:05 pm

Comments:

Work Order # : 2011051

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011051-009A	S-32-10-C @ 5'	11/04/20 8:29	Soil	05/03/21			VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-010A	S-32-10-C@10'	11/04/20 8:30	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-011A	S-38-10-E @ 5'	11/04/20 9:11	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-012A	S-38-10-E @ 10"	11/04/20 9:14	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011051-013A	S-38-10-S @ 5'	11/04/20 9:17	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_GRO mg/Kg VOC_S_8260B mg/Kg	
2011051-014A	S-38-10-S @ 10'	11/04/20 9:19	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-015A	S-38-10-W @ 5'	11/04/20 9:25	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-016A	S-38-10-W@10'	11/04/20 9:29	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Brindle Gate
Project # : 3359.210.001
Report Due Date: 11/10/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/5/2020
Time Received: 2:05 pm

Comments:

Work Order # : **2011051**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2011051-017A	S-38-10-N @ 5'	11/04/20 9:33	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-018A	S-38-10-N@10'	11/04/20 9:34	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-019A	S-38-10-C @ 5'	11/04/20 9:47	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	
2011051-020A	S-38-10-C@10'	11/04/20 9:48	Soil	05/03/21			TPHDOSG_S_8015B VOC_S_8260B mg/Kg VOC_S_GRO mg/Kg	



CHAIN OF CUSTODY RECORD

2011051

PROJECT NUMBER		PROJECT NAME																				REMARKS REQUIRED DETECTION LIMITS	
3359.210.001		Brindie Gate																					
SAMPLED BY: (SIGNATURE/PRINT) Taunee Werts		PROJECT MANAGER: (SIGNATURE/PRINT) Brooke Spruit																					
ROUTING E-MAIL Bspruit, twerts, smunger@enggeo.com																							
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TPH-g	BTEX	MTBE	TPH-dmg	WIS6	cleanup											
S-32-10-S@5'	11/4/20	07:58	soil	1	sleeve	N/A	X	X	X	X												-001A	
↓ 010'		08:01					X	X	X	X												-002A	
S-32-10-W@5'		08:04					X	X	X	X												-003A	
↓ 010'		08:07					X	X	X	X												-004A	
S-32-10-N@5'		08:09					X	X	X	X												-005A	
↓ 010'		08:11					X	X	X	X												-006A	
S-32-10-E@5'		08:14					X	X	X	X												-007A	
↓ 010'		08:15					X	X	X	X												-008A	
S-32-10-L@5'		08:29					X	X	X	X												-009A	
↓ 010'		08:30					X	X	X	X												-010A	
S-38-10-E@5'		09:11					X	X	X	X												-011A	
↓ 010'		09:14					X	X	X	X												-012A	
S-38-10-S@5'		09:17					X	X	X	X												-013A	
↓ 010'		09:19					X	X	X	X												-014A	
S-38-10-W@5'		09:25					X	X	X	X												-015A	
↓ 010'		09:29					X	X	X	X												-016A	
S-38-10-N@5'		09:33					X	X	X	X												-017A	
↓ 010'		09:34					X	X	X	X												-018A	
S-38-10-L@5'		09:47					X	X	X	X												-019A	
↓ 010'		09:49					X	X	X	X												-020A	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		REMARKS	
<i>[Signature]</i>		11/5/20 07:00		FCS (courier)																			
<i>[Signature]</i>		11/5/20 1405		<i>[Signature]</i>																			

ENGEO
INCORPORATED

2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

FCS
Temp = 2° C #2

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

APPENDIX B

Johnson & Ettinger Model Outputs

Model Input

Site Name/Run Number: Example, Run 1

Note:
 -Yellow highlighted cells indicate parameters that typically are changed or must be inputted by the user.
 -Dotted outline cells indicate default values that may be changed with justification.
 -Toxicity values are taken from Regional Screening Level tables. These tables are updated semi-annually and may not reflect the most current toxicity information.

Use English / Metric Converter

Source Characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Source medium		Source	Exterior Soil Gas					
Soil gas concentration	(ug/m3)	Cmedium	5.1		NA			
Depth below grade to soil gas sample	(m)	Ls	1.83		Vary - 50	NA		
Average vadose zone temperature	(°C)	Ts	25	25	3-30			
Calc: Source vapor concentration	(ug/m3)	Cs	5					
Calc: % of pure component saturated vapor concentration	(%)	%Sat	0.000%					

Chemical:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Chemical Name		Chem	Benzene					
CAS No.		CAS	71-43-2					
Toxicity Factors								
Unit risk factor	(ug/m ³) ⁻¹	IUR	7.80E-06	7.80E-06	NA	NA		
Mutagenic compound		Mut	No	NA	NA	NA		
Reference concentration	(mg/m ³)	RIC	3.00E-02	3.00E-02	NA	NA		

Chemical Properties:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Pure component water solubility	(mg/L)	S	1.79E+03	1.79E+03	NA	NA		
Henry's Law Constant @ 25°C	(atm·m ³ /mol)	Hc	5.55E-03	5.55E-03	NA	NA		
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr	2.27E-01	2.27E-01				
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs	2.27E-01	2.27E-01				
Diffusivity in air	(cm2/s)	Dair	8.95E-02	8.95E-02	NA	NA		
Diffusivity in water	(cm2/s)	Dwater	1.03E-05	1.03E-05	NA	NA		

Building Characteristics:

Select Building Assumptions

Use ratio for Qsoil/Qbuilding (recommended if no site specific data available)

Specify Qsoil and Qbuilding separately, calculate ratio

	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Building setting		Bldg_Setting	Residential	Residential				
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade				
Depth below grade to base of foundation	(m)	Lb	0.10	0.10	0.1 - 2.44	NA		
Foundation thickness	(m)	Lf	0.10	0.10	0.1 - 0.25	NA		
Fraction of foundation area with cracks	(-)	eta	0.001	0.001	0.00019-0.0019	1.00		
Enclosed space floor area	(m2)	Abf	150.00	150.00	80 - 200	NA		
Enclosed space mixing height	(m)	Hb	2.44	2.44	2.13 - 3.05	NA		
Indoor air exchange rate	(1 / hr)	ach	0.45	0.45	.15-1.26	NA		
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030	0.0001 - 0.05	1.24		
Calc: Building ventilation rate	(m3/hr)	Qb	164.70	164.70	NA	0.30		
Calc: Average vapor flow rate into building	(m3/hr)	Qsoil	0.49	0.49	NA	NA		

Model Input

Site Name/Run Number: Example, Run 1

Chemical Name: Benzene CAS No. 71-43-2

Depth below grade to soil gas sample: 1.83 meters

Vadose zone characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Stratum A (Top of soil profile):								
Stratum A SCS soil type		SCS_A	Silty Clay					
Stratum A thickness (from surface)	(m)	hSA	1.83					
Stratum A total porosity	(-)	nSA	0.481	0.481	NA	0.20		
Stratum A water-filled porosity	(-)	nwSA	0.216	0.216	0.11 - 0.32	0.25		
Stratum A bulk density	(g/cm ³)	rhoSA	1.380	1.380	NA	0.05		
Stratum B (Soil layer below Stratum A):								
Stratum B SCS soil type		SCS_B	Not Present					
Stratum B thickness	(m)	hSB						
Stratum B total porosity	(-)	nSB			NA	NA		
Stratum B water-filled porosity	(-)	nwSB			NA	NA		
Stratum B bulk density	(g/cm ³)	rhoSB			NA	NA		
Stratum C (Soil layer below Stratum B):								
Stratum C SCS soil type		SCS_C	Not Present					
Stratum C thickness	(m)	hSC	0.00					
Stratum C total porosity	(-)	nSC			NA	NA		
Stratum C water-filled porosity	(-)	nwSC			NA	NA		
Stratum C bulk density	(g/cm ³)	rhoSC			NA	NA		
Stratum containing soil gas sample								
Stratum A, B, or C		src_soil	Stratum A					
					NA	NA		
					NA	NA		
					NA	NA		
Exposure Parameters:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Target risk for carcinogens	(-)	Target_CR	1.00E-06	1.00E-06	NA	NA		
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1	NA	NA		
Exposure Scenario		Scenario	Residential	Residential				
Averaging time for carcinogens	(yrs)	ATc	70	70	NA	NA		
Averaging time for non-carcinogens	(yrs)	ATnc	26	26	NA	NA		
Exposure duration	(yrs)	ED	26	26	NA	NA		
Exposure frequency	(days/yr)	EF	350	350	NA	NA		
Exposure time	(hrs/24 hrs)	ET	24	24	NA	NA		
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72	NA	NA	NOTE	MMOAF not relevant for non-mutagenic

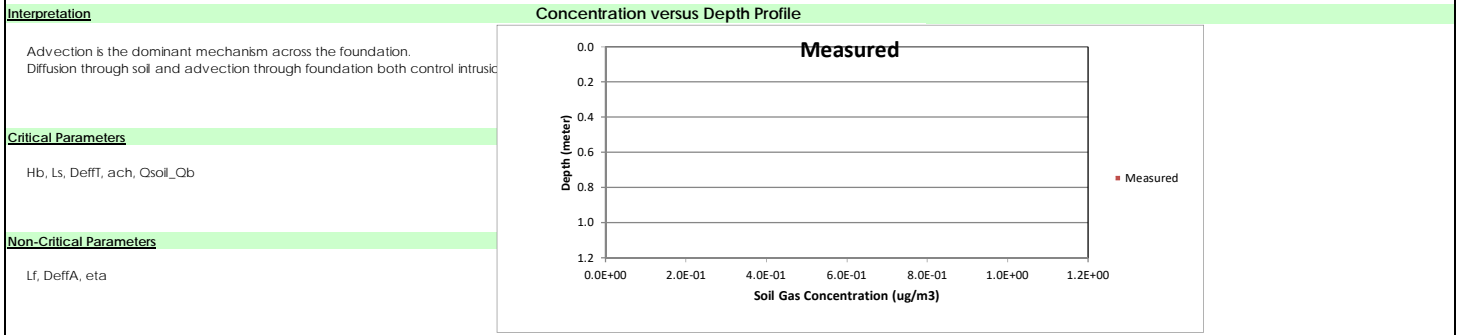
Model Output

Site Name/Run Number:

Range is based on the reasonable range of $C_{soil}/C_{building}$ values, as reported in the literature.

Chemical Name: Benzene CAS No. 71-43-2

Source to Indoor Air Attenuation Factor	Units	Symbol	Value	Range	Default	Default Range	Flag
Soil gas to indoor air attenuation coefficient	(-)	alpha	7.0E-04	9.0E-05 - 8.9E-04	7.0E-04	9.0E-05 - 8.9E-04	
Predicted Indoor Air Concentration	Units	Symbol	Value	Range	Default	Default Range	Flag
Indoor air concentration due to vapor intrusion	(ug/m3)	Cia	3.6E-03	4.6E-04 - 4.6E-03	3.6E-03	4.6E-04 - 4.6E-03	
	(ppbv)		1.1E-03	1.4E-04 - 1.4E-03	1.1E-03	1.4E-04 - 1.4E-03	
Predicted Vapor Conc. Beneath Foundation	Units	Symbol	Value	Range	Default	Default Range	Flag
Subslab vapor concentration	(ug/m3)	Css	1.2E+00	9.1E-02 - 4.6E+00	1.2E+00	4.6E+00 - 4.6E+01	
	(ppbv)		3.7E-01	2.9E-02 - 1.4E+00	3.7E-01	1.4E+00 - 1.4E+01	
Diffusive Transport Upward Through Vadose Zone	Units	Symbol	Value	Range	Default	Default Range	Flag
Effective diffusion coefficient through Stratum A	(cm2/sec)	DeffA	4.6E-03	-	4.6E-03	-	
Effective diffusion coefficient through Stratum B	(cm2/sec)	DeffB	-	-	-	-	
Effective diffusion coefficient through Stratum C	(cm2/sec)	DeffC	-	-	-	-	
Effective diffusion coefficient through unsaturated zone	(cm2/sec)	DeffT	4.6E-03	-	4.6E-03	-	
Critical Parameters		Symbol	Value	Range	Default	Default Range	Flag
α for diffusive transport from source to building with dirt floor foundation	(-)	A_Param	9.1E-04	-	9.1E-04	-	
Pe (Peclet Number) for transport through the foundation (advection / diffusion)	(-)	B_Param	1.9E+02	6.4E+00 - 3.2E+03	1.9E+02	6.4E+00 - 3.2E+03	
α for convective transport from subslab to building	(-)	C_Param	3.0E-03	1.0E-04 - 5.0E-02	3.0E-03	1.0E-04 - 5.0E-02	



Model Output

Site Name/Run Number: Example, Run 1

Chemical Name: Benzene CAS No. 71-43-2

Risk Calculations	Units	Symbol	Value	Range	Default	Range	Flag
Risk-Based Target Screening Levels Scenario: Residential							
Target risk for carcinogens	(-)	Target_CR	1E-06	-	1E-06	-	
Target hazard quotient for noncarcinogens	(-)	Target_HQ	1	-	1	-	
Target indoor air concentration	(ug/m3)	Target_IA	3.60E-01	-	3.60E-01	-	Target indoor air concentration based o
	(ppbv)		1.13E-01	-	1.13E-01	-	
Target soil gas concentration	(ug/m3)	Target_SV	5.16E+02	4.0E+02 - 4.0E+03	5.16E+02	4.0E+02 - 4.0E+03	
Incremental Risk Estimates							
Incremental cancer risk from vapor intrusion	(-)	Cancer_Risk	9.89E-09	1.3E-09 - 1.3E-08	9.89E-09	1.3E-09 - 1.3E-08	
Hazard quotient from vapor intrusion	(-)	HQ	1.14E-04	1.5E-05 - 1.5E-04	1.14E-04	1.5E-05 - 1.5E-04	

Model Input

Site Name/Run Number: Example, Run 1

Note:
 -Yellow highlighted cells indicate parameters that typically are changed or must be inputted by the user.
 -Dotted outline cells indicate default values that may be changed with justification.
 -Toxicity values are taken from Regional Screening Level tables. These tables are updated semi-annually and may not reflect the most current toxicity information.

Use English / Metric Converter

Source Characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Source medium		Source	Exterior Soil Gas					
Soil gas concentration	(ug/m3)	Cmedium	8.7		NA			
Depth below grade to soil gas sample	(m)	Ls	1.83		Vary - 50	NA		
Average vadose zone temperature	(°C)	Ts	18.33	25	3-30			
Calc: Source vapor concentration	(ug/m3)	Cs	9					
Calc: % of pure component saturated vapor concentration	(%)	%Sat	0.000%					

Chemical:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Chemical Name		Chem	Chloroform					
CAS No.		CAS	67-66-3					
Toxicity Factors								
Unit risk factor	(ug/m ³) ⁻¹	IUR	2.30E-05	2.30E-05	NA	NA		
Mutagenic compound		Mut	No	NA	NA	NA		
Reference concentration	(mg/m ³)	RIC	9.80E-02	9.80E-02	NA	NA		

Chemical Properties:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Pure component water solubility	(mg/L)	S	7.95E+03	7.95E+03	NA	NA		
Henry's Law Constant @ 25°C	(atm-m ³ /mol)	Hc	3.67E-03	3.67E-03	NA	NA		
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr	1.50E-01	1.50E-01				
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs	1.15E-01	1.54E-01				
Diffusivity in air	(cm2/s)	Dair	7.69E-02	7.69E-02	NA	NA		
Diffusivity in water	(cm2/s)	Dwater	1.09E-05	1.09E-05	NA	NA		

Building Characteristics:

Select Building Assumptions

Use ratio for Qsoil/Qbuilding (recommended if no site specific data available)

Specify Qsoil and Qbuilding separately, calculate ratio

	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Building setting		Bldg_Setting	Residential	Residential				
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade				
Depth below grade to base of foundation	(m)	Lb	0.10	0.10	0.1 - 2.44	NA		
Foundation thickness	(m)	Lf	0.10	0.10	0.1 - 0.25	NA		
Fraction of foundation area with cracks	(-)	eta	0.001	0.001	0.00019-0.0019	1.00		
Enclosed space floor area	(m2)	Abf	150.00	150.00	80 - 200	NA		
Enclosed space mixing height	(m)	Hb	2.44	2.44	2.13 - 3.05	NA		
Indoor air exchange rate	(1 / hr)	ach	0.45	0.45	.15-1.26	NA		
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030	0.0001 - 0.05	1.24		
Calc: Building ventilation rate	(m3/hr)	Qb	164.70	164.70	NA	0.30		
Calc: Average vapor flow rate into building	(m3/hr)	Qsoil	0.49	0.49	NA	NA		

Model Input

Site Name/Run Number: Example, Run 1

Chemical Name: Chloroform CAS No. 67-66-3
 Depth below grade to soil gas sample: 1.83 meters

Vadose zone characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Stratum A (Top of soil profile):								
Stratum A SCS soil type		SCS_A	Silty Clay					
Stratum A thickness (from surface)	(m)	hSA	1.83					
Stratum A total porosity	(-)	nSA	0.481	0.481	NA	0.20		
Stratum A water-filled porosity	(-)	nwSA	0.216	0.216	0.11 - 0.32	0.25		
Stratum A bulk density	(g/cm ³)	rhoSA	1.380	1.380	NA	0.05		
Stratum B (Soil layer below Stratum A):								
Stratum B SCS soil type		SCS_B	Not Present					
Stratum B thickness	(m)	hSB						
Stratum B total porosity	(-)	nSB			NA	NA		
Stratum B water-filled porosity	(-)	nwSB			NA	NA		
Stratum B bulk density	(g/cm ³)	rhoSB			NA	NA		
Stratum C (Soil layer below Stratum B):								
Stratum C SCS soil type		SCS_C	Not Present					
Stratum C thickness	(m)	hSC	0.00					
Stratum C total porosity	(-)	nSC			NA	NA		
Stratum C water-filled porosity	(-)	nwSC			NA	NA		
Stratum C bulk density	(g/cm ³)	rhoSC			NA	NA		
Stratum containing soil gas sample								
Stratum A, B, or C		src_soil	Stratum A					
					NA	NA		
					NA	NA		
					NA	NA		
Exposure Parameters:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Target risk for carcinogens	(-)	Target_CR	1.00E-06	1.00E-06	NA	NA		
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1	NA	NA		
Exposure Scenario		Scenario	Residential	Residential				
Averaging time for carcinogens	(yrs)	ATc	70	70	NA	NA		
Averaging time for non-carcinogens	(yrs)	ATnc	26	26	NA	NA		
Exposure duration	(yrs)	ED	26	26	NA	NA		
Exposure frequency	(days/yr)	EF	350	350	NA	NA		
Exposure time	(hrs/24 hrs)	ET	24	24	NA	NA		
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72	NA	NA	NOTE	MMOAF not relevant for non-mutagenic

Model Output

Site Name/Run Number:

Range is based on the reasonable range of $Q_{soil}/Q_{building}$ values, as reported in the literature.

Chemical Name: Chloroform CAS No. 67-66-3		Units	Symbol	Value	Range	Default	Default Range	Flag
Source to Indoor Air Attenuation Factor								
Soil gas to indoor air attenuation coefficient	(-)	alpha	6.2E-04	8.9E-05 - 7.7E-04	6.2E-04	8.9E-05 - 7.7E-04		
Predicted Indoor Air Concentration								
Indoor air concentration due to vapor intrusion	(ug/m3) (ppbv)	Cia	5.4E-03 1.1E-03	7.7E-04 - 6.7E-03 1.6E-04 - 1.4E-03	5.4E-03 1.1E-03	7.7E-04 - 6.7E-03 1.6E-04 - 1.4E-03		
Predicted Vapor Conc. Beneath Foundation								
Subslab vapor concentration	(ug/m3) (ppbv)	Css	1.8E+00 3.7E-01	1.3E-01 - 7.7E+00 2.7E-02 - 1.6E+00	1.8E+00 3.7E-01	7.7E+00 - 6.7E+01 1.6E+00 - 1.4E+01		
Diffusive Transport Upward Through Vadose Zone								
Effective diffusion coefficient through Stratum A	(cm2/sec)	DeffA	4.0E-03	-	4.0E-03	-		
Effective diffusion coefficient through Stratum B	(cm2/sec)	DeffB		-		-		
Effective diffusion coefficient through Stratum C	(cm2/sec)	DeffC		-		-		
Effective diffusion coefficient through unsaturated zone	(cm2/sec)	DeffT	4.0E-03	-	4.0E-03	-		
Critical Parameters								
α for diffusive transport from source to building with dirt floor foundation	(-)	A_Param	7.8E-04	-	7.8E-04			
Pe (Peclet Number) for transport through the foundation (advection / diffusion)	(-)	B_Param	2.2E+02	7.4E+00 - 3.7E+03	2.2E+02	7.4E+00 - 3.7E+03		
α for convective transport from subslab to building	(-)	C_Param	3.0E-03	1.0E-04 - 5.0E-02	3.0E-03	1.0E-04 - 5.0E-02		
Interpretation		Concentration versus Depth Profile						
Advection is the dominant mechanism across the foundation. Diffusion through soil and advection through foundation both control intrusion.								
Critical Parameters		Hb, Ls, DeffT, ach, Qsoil_Qb						
Non-Critical Parameters		Lf, DeffA, eta						

Model Output

Site Name/Run Number: Example, Run 1

Chemical Name: Chloroform CAS No. 67-66-3

Risk Calculations	Units	Symbol	Value	Range	Default	Range	Flag
Risk-Based Target Screening Levels Scenario: Residential							
Target risk for carcinogens	(-)	Target_CR	1E-06	-	1E-06	-	
Target hazard quotient for noncarcinogens	(-)	Target_HQ	1	-	1	-	
Target indoor air concentration	(ug/m3)	Target_IA	1.22E-01	-	1.22E-01	-	Target indoor air concentration based o
	(ppbv)		2.50E-02	-	2.50E-02	-	
Target soil gas concentration	(ug/m3)	Target_SV	1.97E+02	1.6E+02 - 1.4E+03	1.97E+02	1.6E+02 - 1.4E+03	
Incremental Risk Estimates							
Incremental cancer risk from vapor intrusion	(-)	Cancer_Risk	4.42E-08	6.3E-09 - 5.5E-08	4.42E-08	6.3E-09 - 5.5E-08	
Hazard quotient from vapor intrusion	(-)	HQ	5.28E-05	7.6E-06 - 6.6E-05	5.28E-05	7.6E-06 - 6.6E-05	

Model Input

Site Name/Run Number: Example, Run 1

Note:
 -Yellow highlighted cells indicate parameters that typically are changed or must be inputted by the user.
 -Dotted outline cells indicate default values that may be changed with justification.
 -Toxicity values are taken from Regional Screening Level tables. These tables are updated semi-annually and may not reflect the most current toxicity information.

[Use English / Metric Converter](#)

Source Characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Source medium		Source	Exterior Soil Gas					
Soil gas concentration	(ug/m3)	Cmedium	1400		NA			
Depth below grade to soil gas sample	(m)	Ls	1.83		Vary - 50	NA		
Average vadose zone temperature	(°C)	Ts	18.3	25	3-30			
Calc: Source vapor concentration	(ug/m3)	Cs	1400					
Calc: % of pure component saturated vapor concentration	(%)	%Sat	0.003%					

Chemical:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Chemical Name		Chem	Ethylbenzene					
CAS No.		CAS	100-41-4					
Toxicity Factors								
Unit risk factor	(ug/m ³) ⁻¹	IUR	2.50E-06	2.50E-06	NA	NA		
Mutagenic compound		Mut	No	NA	NA	NA		
Reference concentration	(mg/m ³)	RIC	1.00E+00	1.00E+00	NA	NA		

Chemical Properties:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Pure component water solubility	(mg/L)	S	1.69E+02	1.69E+02	NA	NA		
Henry's Law Constant @ 25°C	(atm-m ³ /mol)	Hc	7.88E-03	7.88E-03	NA	NA		
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr	3.22E-01	3.22E-01				
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs	2.23E-01	3.30E-01				
Diffusivity in air	(cm2/s)	Dair	6.85E-02	6.85E-02	NA	NA		
Diffusivity in water	(cm2/s)	Dwater	8.46E-06	8.46E-06	NA	NA		

Building Characteristics:

Select Building Assumptions

Use ratio for Qsoil/Qbuilding (recommended if no site specific data available)

Specify Qsoil and Qbuilding separately, calculate ratio

	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Building setting		Bldg_Setting	Residential	Residential				
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade				
Depth below grade to base of foundation	(m)	Lb	0.10	0.10	0.1 - 2.44	NA		
Foundation thickness	(m)	Lf	0.10	0.10	0.1 - 0.25	NA		
Fraction of foundation area with cracks	(-)	eta	0.001	0.001	0.00019-0.0019	1.00		
Enclosed space floor area	(m2)	Abf	150.00	150.00	80 - 200	NA		
Enclosed space mixing height	(m)	Hb	2.44	2.44	2.13 - 3.05	NA		
Indoor air exchange rate	(1 / hr)	ach	0.45	0.45	.15-1.26	NA		
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030	0.0001 - 0.05	1.24		
Calc: Building ventilation rate	(m3/hr)	Qb	164.70	164.70	NA	0.30		
Calc: Average vapor flow rate into building	(m3/hr)	Qsoil	0.49	0.49	NA	NA		

Model Input

Site Name/Run Number: Example, Run 1

Chemical Name: Ethylbenzene CAS No. 100-41-4

Depth below grade to soil gas sample: 1.83 meters

Vadose zone characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Stratum A (Top of soil profile):								
Stratum A SCS soil type		SCS_A	Silty Clay					
Stratum A thickness (from surface)	(m)	hSA	1.83					
Stratum A total porosity	(-)	nSA	0.481	0.481	NA	0.20		
Stratum A water-filled porosity	(-)	nwSA	0.216	0.216	0.11 - 0.32	0.25		
Stratum A bulk density	(g/cm ³)	rhoSA	1.380	1.380	NA	0.05		
Stratum B (Soil layer below Stratum A):								
Stratum B SCS soil type		SCS_B	Not Present					
Stratum B thickness	(m)	hSB						
Stratum B total porosity	(-)	nSB			NA	NA		
Stratum B water-filled porosity	(-)	nwSB			NA	NA		
Stratum B bulk density	(g/cm ³)	rhoSB			NA	NA		
Stratum C (Soil layer below Stratum B):								
Stratum C SCS soil type		SCS_C	Not Present					
Stratum C thickness	(m)	hSC	0.00					
Stratum C total porosity	(-)	nSC			NA	NA		
Stratum C water-filled porosity	(-)	nwSC			NA	NA		
Stratum C bulk density	(g/cm ³)	rhoSC			NA	NA		
Stratum containing soil gas sample								
Stratum A, B, or C		src_soil	Stratum A					
					NA	NA		
					NA	NA		
					NA	NA		
Exposure Parameters:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Target risk for carcinogens	(-)	Target_CR	1.00E-06	1.00E-06	NA	NA		
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1	NA	NA		
Exposure Scenario		Scenario	Residential	Residential				
Averaging time for carcinogens	(yrs)	ATc	70	70	NA	NA		
Averaging time for non-carcinogens	(yrs)	ATnc	26	26	NA	NA		
Exposure duration	(yrs)	ED	26	26	NA	NA		
Exposure frequency	(days/yr)	EF	350	350	NA	NA		
Exposure time	(hrs/24 hrs)	ET	24	24	NA	NA		
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72	NA	NA	NOTE	MMOAF not relevant for non-mutagenic

Model Output

Site Name/Run Number:

Range is based on the reasonable range of $C_{soil}/C_{building}$ values, as reported in the literature.

Chemical Name: Ethylbenzene CAS No. 100-41-4		Units	Symbol	Value	Range	Default	Default Range	Flag
Source to Indoor Air Attenuation Factor								
Soil gas to indoor air attenuation coefficient	(-)	alpha	5.6E-04	8.7E-05 - 6.9E-04	5.6E-04	8.7E-05 - 6.9E-04		
Predicted Indoor Air Concentration								
Indoor air concentration due to vapor intrusion	(ug/m3)	Cia	7.9E-01	1.2E-01 - 9.6E-01	7.9E-01	1.2E-01 - 9.6E-01		
	(ppbv)		1.8E-01	2.8E-02 - 2.2E-01	1.8E-01	2.8E-02 - 2.2E-01		
Predicted Vapor Conc. Beneath Foundation								
Subslab vapor concentration	(ug/m3)	Css	2.6E+02	1.9E+01 - 1.2E+03	2.6E+02	1.2E+03 - 9.6E+03		
	(ppbv)		6.1E+01	4.4E+00 - 2.8E+02	6.1E+01	2.8E+02 - 2.2E+03		
Diffusive Transport Upward Through Vadose Zone								
Effective diffusion coefficient through Stratum A	(cm2/sec)	DeffA	3.6E-03	-	3.6E-03	-		
Effective diffusion coefficient through Stratum B	(cm2/sec)	DeffB	-	-	-	-		
Effective diffusion coefficient through Stratum C	(cm2/sec)	DeffC	-	-	-	-		
Effective diffusion coefficient through unsaturated zone	(cm2/sec)	DeffT	3.6E-03	-	3.6E-03	-		
Critical Parameters								
α for diffusive transport from source to building with dirt floor foundation	(-)	A_Param	7.0E-04	-	7.0E-04	-		
Pe (Peclet Number) for transport through the foundation (advection / diffusion)	(-)	B_Param	2.5E+02	8.3E+00 - 4.2E+03	2.5E+02	8.3E+00 - 4.2E+03		
α for convective transport from subslab to building	(-)	C_Param	3.0E-03	1.0E-04 - 5.0E-02	3.0E-03	1.0E-04 - 5.0E-02		
Interpretation		Concentration versus Depth Profile						
Advection is the dominant mechanism across the foundation. Diffusion through soil and advection through foundation both control intrusion.								
Critical Parameters		Hb, Ls, DeffT, ach, Csoil_Ob						
Non-Critical Parameters		Lf, DeffA, eta						

Model Output

Site Name/Run Number: Example, Run 1

Chemical Name: Ethylbenzene CAS No. 100-41-4

Risk Calculations	Units	Symbol	Value	Range	Default	Range	Flag
Risk-Based Target Screening Levels Scenario: Residential							
Target risk for carcinogens	(-)	Target_CR	1E-06	-	1E-06	-	
Target hazard quotient for noncarcinogens	(-)	Target_HQ	1	-	1	-	
Target indoor air concentration	(ug/m3)	Target_IA	1.12E+00	-	1.12E+00	-	Target indoor air concentration based o
	(ppbv)		2.59E-01	-	2.59E-01	-	
Target soil gas concentration	(ug/m3)	Target_SV	1.99E+03	1.6E+03 - 1.3E+04	1.99E+03	1.6E+03 - 1.3E+04	
Incremental Risk Estimates							
Incremental cancer risk from vapor intrusion	(-)	Cancer_Risk	7.04E-07	1.1E-07 - 8.6E-07	7.04E-07	1.1E-07 - 8.6E-07	
Hazard quotient from vapor intrusion	(-)	HQ	7.58E-04	1.2E-04 - 9.2E-04	7.58E-04	1.2E-04 - 9.2E-04	

Model Input

Site Name/Run Number: Example, Run 1

Note:
 -Yellow highlighted cells indicate parameters that typically are changed or must be inputted by the user.
 -Dotted outline cells indicate default values that may be changed with justification.
 -Toxicity values are taken from Regional Screening Level tables. These tables are updated semi-annually and may not reflect the most current toxicity information.

Use English / Metric Converter

Source Characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Source medium		Source	Exterior Soil Gas					
Soil gas concentration	(ug/m3)	Cmedium	6100		NA			
Depth below grade to soil gas sample	(m)	Ls	1.83		Vary - 50	NA		
Average vadose zone temperature	(°C)	Ts	18.3	25	3-30			
Calc: Source vapor concentration	(ug/m3)	Cs	6100					
Calc: % of pure component saturated vapor concentration	(%)	%Sat	0.013%					

Chemical:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Chemical Name		Chem	Xylenes					
CAS No.		CAS	1330-20-7					
Toxicity Factors								No IUR available for this compound.
Unit risk factor	(ug/m ³) ⁻¹	IUR	Not Available	Not Available	NA	NA		
Mutagenic compound		Mut	No	NA	NA	NA		
Reference concentration	(mg/m ³)	RIC	1.00E-01	1.00E-01	NA	NA		

Chemical Properties:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Pure component water solubility	(mg/L)	S	1.06E+02	1.06E+02	NA	NA		
Henry's Law Constant @ 25°C	(atm-m ³ /mol)	Hc	6.63E-03	6.63E-03	NA	NA		
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr	2.71E-01	2.71E-01				
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs	1.87E-01	2.77E-01				
Diffusivity in air	(cm2/s)	Dair	6.85E-02	6.85E-02	NA	NA		
Diffusivity in water	(cm2/s)	Dwater	8.46E-06	8.46E-06	NA	NA		

Building Characteristics:

Select Building Assumptions

Use ratio for Qsoil/Qbuilding (recommended if no site specific data available)

Specify Qsoil and Qbuilding separately, calculate ratio

	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Building setting		Bldg_Setting	Residential	Residential				
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade				
Depth below grade to base of foundation	(m)	Lb	0.10	0.10	0.1 - 2.44	NA		
Foundation thickness	(m)	Lf	0.10	0.10	0.1 - 0.25	NA		
Fraction of foundation area with cracks	(-)	eta	0.001	0.001	0.00019-0.0019	1.00		
Enclosed space floor area	(m2)	Abf	150.00	150.00	80 - 200	NA		
Enclosed space mixing height	(m)	Hb	2.44	2.44	2.13 - 3.05	NA		
Indoor air exchange rate	(1 / hr)	ach	0.45	0.45	.15-1.26	NA		
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030	0.0001 - 0.05	1.24		
Calc: Building ventilation rate	(m3/hr)	Qb	164.70	164.70	NA	0.30		
Calc: Average vapor flow rate into building	(m3/hr)	Qsoil	0.49	0.49	NA	NA		

Model Input

Site Name/Run Number: Example, Run 1

Chemical Name: Xylenes CAS No. 1330-20-7

Depth below grade to soil gas sample: 1.83 meters

Vadose zone characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Stratum A (Top of soil profile):								
Stratum A SCS soil type		SCS_A	Silty Clay					
Stratum A thickness (from surface)	(m)	hSA	1.83					
Stratum A total porosity	(-)	nSA	0.481	0.481	NA	0.20		
Stratum A water-filled porosity	(-)	nwSA	0.216	0.216	0.11 - 0.32	0.25		
Stratum A bulk density	(g/cm ³)	rhoSA	1.380	1.380	NA	0.05		
Stratum B (Soil layer below Stratum A):								
Stratum B SCS soil type		SCS_B	Not Present					
Stratum B thickness	(m)	hSB						
Stratum B total porosity	(-)	nSB			NA	NA		
Stratum B water-filled porosity	(-)	nwSB			NA	NA		
Stratum B bulk density	(g/cm ³)	rhoSB			NA	NA		
Stratum C (Soil layer below Stratum B):								
Stratum C SCS soil type		SCS_C	Not Present					
Stratum C thickness	(m)	hSC	0.00					
Stratum C total porosity	(-)	nSC			NA	NA		
Stratum C water-filled porosity	(-)	nwSC			NA	NA		
Stratum C bulk density	(g/cm ³)	rhoSC			NA	NA		
Stratum containing soil gas sample								
Stratum A, B, or C		src_soil	Stratum A					
					NA	NA		
					NA	NA		
					NA	NA		
Exposure Parameters:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Target risk for carcinogens	(-)	Target_CR	1.00E-06	1.00E-06	NA	NA		
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1	NA	NA		
Exposure Scenario		Scenario	Residential	Residential				
Averaging time for carcinogens	(yrs)	ATc	70	70	NA	NA		
Averaging time for non-carcinogens	(yrs)	ATnc	26	26	NA	NA		
Exposure duration	(yrs)	ED	26	26	NA	NA		
Exposure frequency	(days/yr)	EF	350	350	NA	NA		
Exposure time	(hrs/24 hrs)	ET	24	24	NA	NA		
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72	NA	NA	NOTE	MMOAF not relevant for non-mutagenic

Model Output

Site Name/Run Number: Example, Run 1

Range is based on the reasonable range of $C_{soil}/C_{building}$ values, as reported in the literature.

Chemical Name: Xylenes CAS No. 1330-20-7

Source to Indoor Air Attenuation Factor	Units	Symbol	Value	Range	Default	Default Range	Flag
Soil gas to indoor air attenuation coefficient	(-)	alpha	5.6E-04	8.7E-05 - 6.9E-04	5.6E-04	8.7E-05 - 6.9E-04	
Predicted Indoor Air Concentration	Units	Symbol	Value	Range	Default	Default Range	Flag
Indoor air concentration due to vapor intrusion	(ug/m3)	Cia	3.4E+00	5.3E-01 - 4.2E+00	3.4E+00	5.3E-01 - 4.2E+00	WARNING
	(ppbv)		7.9E-01	1.2E-01 - 9.6E-01	7.9E-01	1.2E-01 - 9.6E-01	
Predicted Vapor Conc. Beneath Foundation	Units	Symbol	Value	Range	Default	Default Range	Flag
Subslab vapor concentration	(ug/m3)	C _{ss}	1.1E+03	8.4E+01 - 5.3E+03	1.1E+03	5.3E+03 - 4.2E+04	
	(ppbv)		2.6E+02	1.9E+01 - 1.2E+03	2.6E+02	1.2E+03 - 9.6E+03	
Diffusive Transport Upward Through Vadose Zone	Units	Symbol	Value	Range	Default	Default Range	Flag
Effective diffusion coefficient through Stratum A	(cm2/sec)	DeffA	3.6E-03	-	3.6E-03	-	
Effective diffusion coefficient through Stratum B	(cm2/sec)	DeffB	-	-	-	-	
Effective diffusion coefficient through Stratum C	(cm2/sec)	DeffC	-	-	-	-	
Effective diffusion coefficient through unsaturated zone	(cm2/sec)	DeffT	3.6E-03	-	3.6E-03	-	
Critical Parameters		Symbol	Value	Range	Default	Default Range	Flag
α for diffusive transport from source to building with dirt floor foundation	(-)	A_Param	7.0E-04	-	7.0E-04	-	
Pe (Peclet Number) for transport through the foundation (advection / diffusion)	(-)	B_Param	2.5E+02	8.3E+00 - 4.2E+03	2.5E+02	8.3E+00 - 4.2E+03	
α for convective transport from subslab to building	(-)	C_Param	3.0E-03	1.0E-04 - 5.0E-02	3.0E-03	1.0E-04 - 5.0E-02	
Interpretation	Concentration versus Depth Profile						
Advection is the dominant mechanism across the foundation. Diffusion through soil and advection through foundation both control intrusion.							
Critical Parameters							
Hb, Ls, DeffT, ach, C _{soil} _Cb							
Non-Critical Parameters							
Lf, DeffA, eta							

Model Output

Site Name/Run Number: Example, Run 1

Chemical Name: Xylenes CAS No. 1330-20-7

Risk Calculations	Units	Symbol	Value	Range	Default	Range	Flag
Risk-Based Target Screening Levels Scenario: Residential							
Target risk for carcinogens	(-)	Target_CR	1E-06	-	1E-06	-	
Target hazard quotient for noncarcinogens	(-)	Target_HQ	1	-	1	-	
Target indoor air concentration	(ug/m3)	Target_IA	1.04E+02	-	1.04E+02	-	Target indoor air concentration based on concentration)
	(ppbv)		2.40E+01	-	2.40E+01	-	
Target soil gas concentration	(ug/m3)	Target_SV	1.85E+05	1.5E+05 - 1.2E+06	1.85E+05	1.5E+05 - 1.2E+06	
Incremental Risk Estimates							
Incremental cancer risk from vapor intrusion	(-)	Cancer_Risk	No IUR	-	No IUR	No IUR - No IUR	
Hazard quotient from vapor intrusion	(-)	HQ	3.30E-02	5.1E-03 - 4.0E-02	3.30E-02	5.1E-03 - 4.0E-02	

APPENDIX C

NorCal Geophysical Survey

GEOPHYSICAL INVESTIGATION REPORT

Engeo Brentwood MAG Survey
Brentwood, California

October 30, 2020

Terracon Project No. NS205129

ENGEO Project No. 7102.000.001



Prepared for:

ENGEO

— Expect Excellence —

Oakland, California

Prepared by:

NORCAL
GEOPHYSICAL CONSULTANTS INC.
A Terracon COMPANY

Cotati, California

terracon.com

Terracon

Environmental ● Facilities ● Geotechnical ● Materials

October 30, 2020

EXECUTIVE SUMMARY:

ENGEO

— *Expect Excellence* —

Engeo Incorporated
630 San Pablo Avenue
Suite 200
Oakland, CA 94612

Attn: Brooke Spruit
Telephone: (925) 395-2538
Email: bspruit@engeo.com

Re: Geophysical Investigation Report
Engeo Brentwood MAG Survey
Oil Well Search
Sand Creek Road & Hwy 4
Contra Costa County, Brentwood, California
GPS – Latitude: 37.943529°, Longitude: -121.745058°
Terracon Project No. NS205129

Dear Ms. Spruit,

NORCAL Geophysical Consultants, Inc. (NORCAL), a Terracon Company is pleased to submit the attached Geophysical Investigation Report for the above-referenced site.

This report presents the findings of a due-diligence geophysical investigation performed by NORCAL for Engeo Incorporated (Engeo) at the subject site located at Sand Creek Road & Hwy 4 in Contra Costa County, California. The investigation was authorized under Master Subcontract Agreement, Reference No. PNS205129, dated October 08, 2020. The geophysical field work was conducted on October 09, 2020 by NORCAL Professional Geophysicist David J. Bissiri (PGp No. 1009) and Staff Geophysicist J. Sage Wagner. The purpose of the investigation is to delineate the approximate locations of two suspected abandoned oil wells.

Two Magnetic (MAG) anomalies were identified in the survey. These features are considered approximate target locations of the suspected abandoned oil wells for additional follow-up exploratory environmental sampling by others. The approximate locations for suspected abandoned oil wells have the greatest resolution along the east-to-west axes, as opposed to the north-to-south axes, based on the inherent nature of the magnetic field caused by induced dipoles (abandoned oil wells).

Geophysical Investigation Report
Engeo Brentwood MAG Survey ■ Brentwood, California
October 30, 2020 ■ Terracon Project No. NS205129



We appreciate the opportunity to provide our services to Engeo for this most interesting project. If you have any questions or require additional geophysical services, please contact either of the undersigned at (707) 796-7170.

Respectfully,

NORCAL Geophysical Consultants, Inc

Prepared by:

Reviewed by:

Approved by:

A handwritten signature in blue ink that reads "J. Sage Wagner III".

A handwritten signature in blue ink that reads "David J. Bissiri".

A handwritten signature in blue ink that reads "William E. Black".

J. Sage Wagner III

David J. Bissiri

William E. Black

Staff Geophysicist

CA Professional Geophysicist,
PGp 1009

CA Professional Geophysicist,
PGp 843

cc: Ms. Brooke Spruit

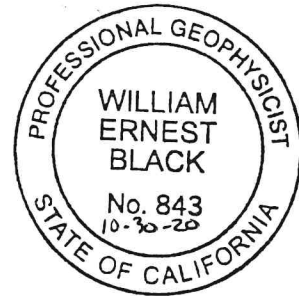
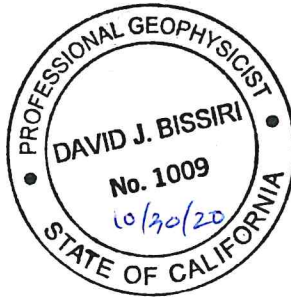


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Appendix A: Report Plates

Plate 1 – Geophysical Survey Map

Plate 2 – Residual Total Field Magnetic Intensity Contour Map - Suspected Oil Well No. 3-10

Plate 3 – Residual Total Field Magnetic Intensity Contour Map - Suspected Oil Well No. 36-10

Appendix B: Geophysical Methods

Magnetometer (MAG) Survey

Appendix C: Standard of Care, Limitations and Reliance Policies

Standard of Care

Limitations

Reliance Policies

1.0 INTRODUCTION

1.1 Project Description

The following description of the project and the project site is derived from background information provided by the client, a review of publicly available geologic and topographic maps and our observations made during the field work.

Item	Description
Site information	The area of investigation, referred to herein as the Engeo Brentwood MAG Survey area, is a rural parcel located at the west terminus of Sand Creek Road, 800-ft west of the Hwy 4 overpass, in Brentwood, Contra Costa County, California. The survey area is illustrated by the Vicinity Map and Geophysical Survey map included on Plate 1 – Geophysical Survey Map . The geographic coordinates of the Sand Creek Road terminus are: 37.943529°, -121.745058°.
Existing improvements	Earthworks (site grading) was observed at the site at the time of the October 09, 2020 survey.
Current ground cover	The survey area ground surface was composed of loose soils and some temporary access paths. The site had variable topography but was generally flat and open in the two survey areas. The limits of each survey area are defined by the red dashed line shown on Plate 1 – Geophysical Survey Map . At the time of the survey the ground surface was dry, and the weather was fair.
Existing topography	Based on the topographic information derived from Google Earth, the ground surface elevation ranges from about 138-ft to 224-ft above mean sea level (MSL) across the entirety of the site.
Site geology	Available geologic maps indicate that the area is underlain by Pleistocene-Holocene sedimentary formations and/or Quaternary alluvium (California Geological Survey, 2015).

1.2 Objectives and Scope of Work

The purpose of the geophysical investigation is to use a cesium vapor magnetometer (MAG) to systematically search accessible, designated portions of the site for magnetic targets which may represent abandoned oil wells, buried debris or other buried objects. The suspected locations of the two abandoned oil wells, designated as 3-10 and 36-10, were identified at the site by ENGeo and marked with three field stakes prior to our arrival. Based on historical documentation the suspected location for Well 3-10 was determined to be at one of two locations (stake 1 or stake 2). The historical documentation indicated only one probable location for Well 36-10 (stake 3).

The three staked locations were to be confirmed or disconfirmed for anomalous magnetic targets. Magnetic anomalies identified by the MAG survey are considered as approximate locations of the suspected abandoned oil wells for the purpose of any follow-up exploratory investigations conducted by others.

2.0 GEOPHYSICAL INVESTIGATION

Total Field Magnetic Intensity (TFM) data were acquired MAG survey. The geophysical investigation was conducted on October 09, 2020. The geophysical results, and our interpretation of those results, are discussed in Section 3.0 and are summarized in **Appendix A – Report Plates**. Detailed descriptions of the geophysical methodology, our data acquisition and analysis procedures, the criteria upon which our interpretation was based, and the unique limitations of each method are provided in **Appendix B – Geophysical Methods**.

3.0 RESULTS AND INTERPRETATIONS

The dimensions of the survey grid for was 200 feet (ft.) by 330 ft. for Well 3-10 and 200 ft. by 200 ft. for Well 36-10. Both are depicted on Plate 1 by the red dashed lines. The three ENGeo field stakes and two suspected well locations are displayed on **Plate 1 – Geophysical Survey Map**.

The results of the MAG surveys are illustrated by the TFM contour maps shown **Plate 2 – Residual Total Field Magnetic Intensity Contour Map - Suspected Oil Well No. 3-10** and **Plate 3 – Residual Total Field Magnetic Intensity Contour Map - Suspected Oil Well No. 36-10**. The dimensions of the TFM contour maps are indicated by their vertical (Northing) and horizontal (Easting) axes. The residual TFM contours are color coded according to their intensity according to the color bar shown on the right side of each map. In additions, the residual intensity values are annotated on the contours.

3.1 Magnetic Anomalies (Plates 2 & 3)

The residual TFM contours show little variation throughout much of the survey areas, except in the vicinity of ENGeo field stakes No. 2 and No. 3. In these areas, there are distinct MAG anomalies formed by roughly circular assemblages of closely spaced, high intensity (red) contours. In addition, there are zones of negative (purple) residual TFM values to the north of each anomaly. It is our interpretation that these strong magnetic variations are due to large magnetic vertical dipoles consistent with steel-cased wells. The bi-polar nature of the anomalies (both positive and negative values) is related to the fact that the earth's magnetic field is tilted and dipping southward at these latitudes. However, it is our interpretation that the abandoned oil well locations coincide with the point of highest intensity residual TFM, as depicted by the yellow circle with cross-hairs.

Other, smaller contour closures are also evident on the contour maps. We interpret these variations as minor amounts of suspected iron debris. One of these locations is coincident with stake No. 1 but we believe the juxtaposition to be entirely coincidental.

It is notable that the residual TFM magnitudes observed on the contour map for Well 3-10 (Plate 2) are lower than those observed for Well 36-10 (Plate 3). It is our interpretation that this is because the top of casing (TOC) for suspected Oil Well No. 36-10 may be shallower than the TOC for suspected Oil Well No. 3-10.

A summary of the GPS coordinates of the suspected oil wells and ENGEO field stakes measured during the MAG survey are below.

2020 MAG Survey	GPS – Latitude, Longitude
Estimated true position of suspected Oil Well No. 3-10	37.944956062, -121.746210742
Estimated true position of suspected Oil Well No. 36-10	37.941232373, -121.746206729
ENGEO field stake No. 1	37.945219836, -121.746220182
ENGEO field stake No. 2	37.944834012, -121.746203989
ENGEO field stake No. 3	37.941218195, -121.746209786

The abandoned oil well locations listed above are based on our best interpretation of the measured MAG data. In the event of any further exploration by others, it should be noted that these locations are approximate. The approximate locations for suspected abandoned oil wells have the greatest resolution along the east-to-west axes, as opposed to the north-to-south axes, based on the inherent nature of the magnetic intensity from induced dipoles (abandoned oil wells).

4.0 SUMMARY OF FINDINGS

The findings of the 2020 geophysical investigation are as follows:

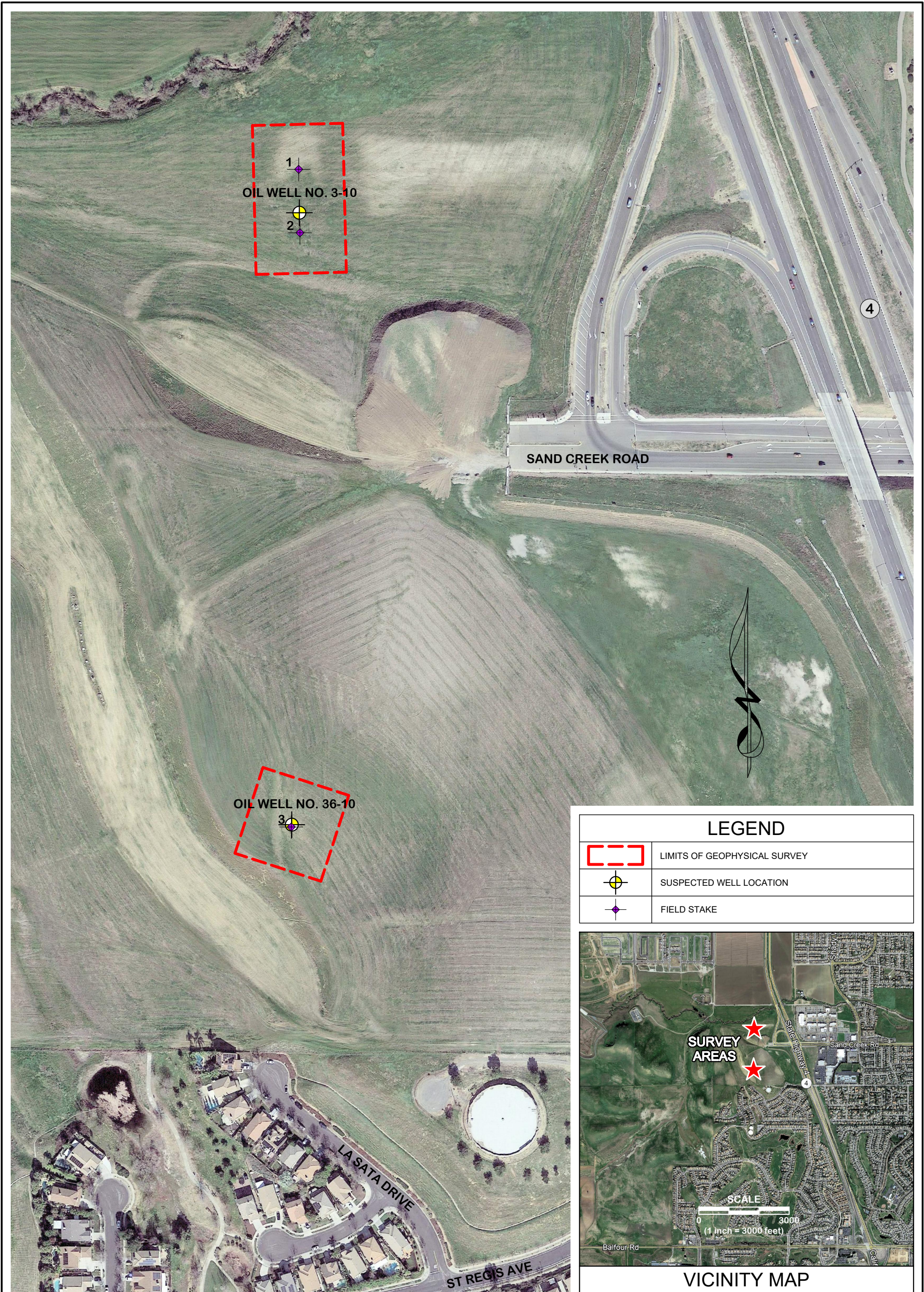
- The suspected location of Well 3-10 is interpreted to be approximately 42 feet due north of ENGEO field stake No. 2
- The suspected location for Well 36-10 is interpreted to be only a foot or two north of stake No. 3.
- The estimated locations for suspected abandoned oil wells have the greatest resolution along the east-to-west axes, as opposed the to the north-to-south axes, based on the inherent nature of the magnetic field arising from induced dipoles (abandoned oil wells). As a result, some location error is to be expected.
- Other smaller magnitude variations likely represent suspected iron debris located in the near surface.

APPENDIX A – Report Plates

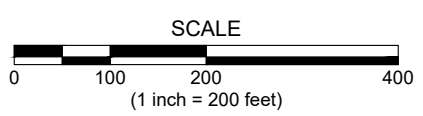
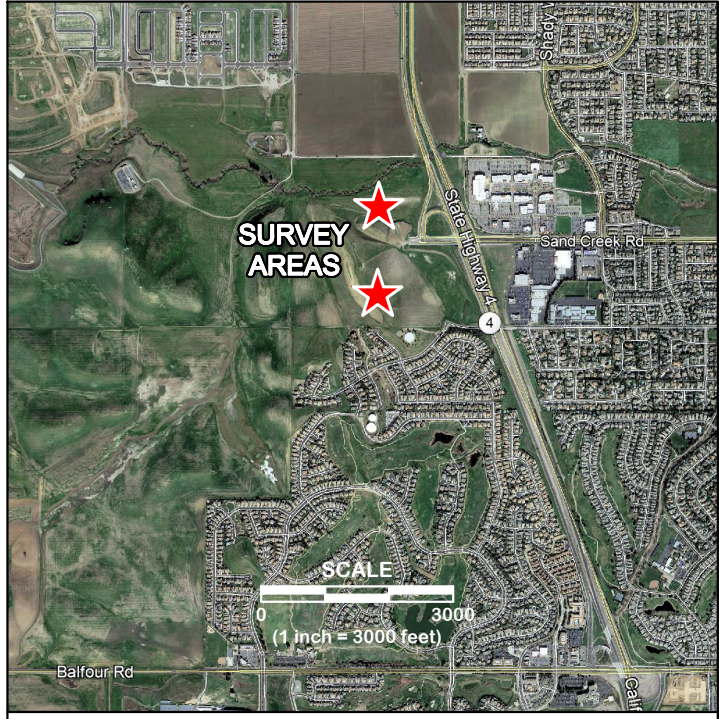
Plate 1 – Geophysical Survey Map

Plate 2 – Residual Total Field Magnetic Intensity Contour Map - Suspected Oil Well No. 3-10

**Plate 3 – Residual Total Field Magnetic Intensity Contour Map - Suspected Oil
Well No. 36-10**

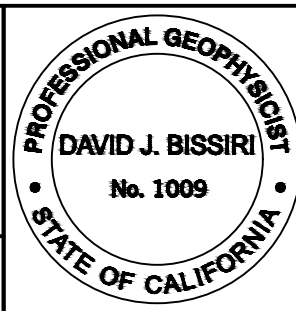


LEGEND	
	LIMITS OF GEOPHYSICAL SURVEY
	SUSPECTED WELL LOCATION
	FIELD STAKE



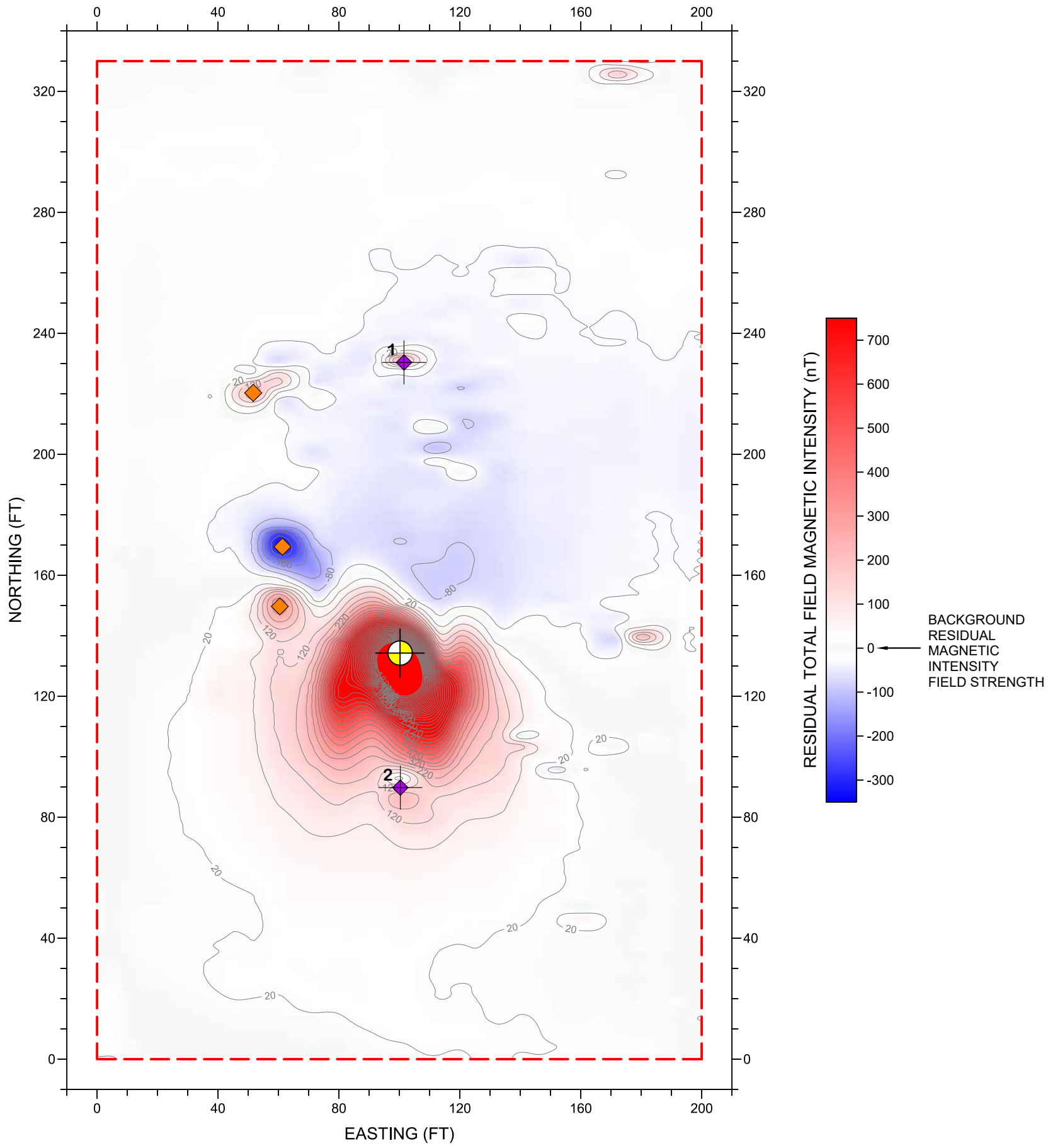
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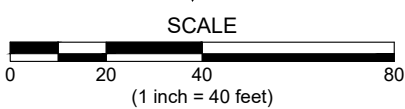


**GEOPHYSICAL SURVEY MAP
 WEST TERMINUS SAND CREEK ROAD**

LOCATION: BRENTWOOD, CALIFORNIA		
CLIENT: ENGENO		
JOB #: NS205129	DATE: OCTOBER 2020	PLATE 1
DRAWN BY: G.RANDALL	APPROVED BY: DJB	
<i>David J. Bissiri</i> 10/29/2020		

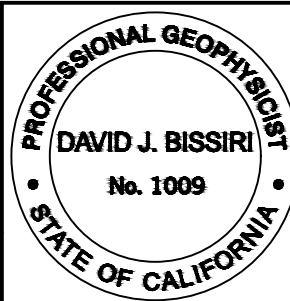


LEGEND	
	LIMITS OF GEOPHYSICAL SURVEY
	RESIDUAL TOTAL FIELD MAGNETIC INTENSITY (CONTOUR INTERVAL = 50 nT)
	SUSPECTED WELL LOCATION
	ENGEO FIELD STAKE
	SUSPECTED IRON DEBRIS

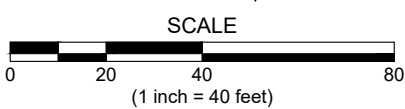
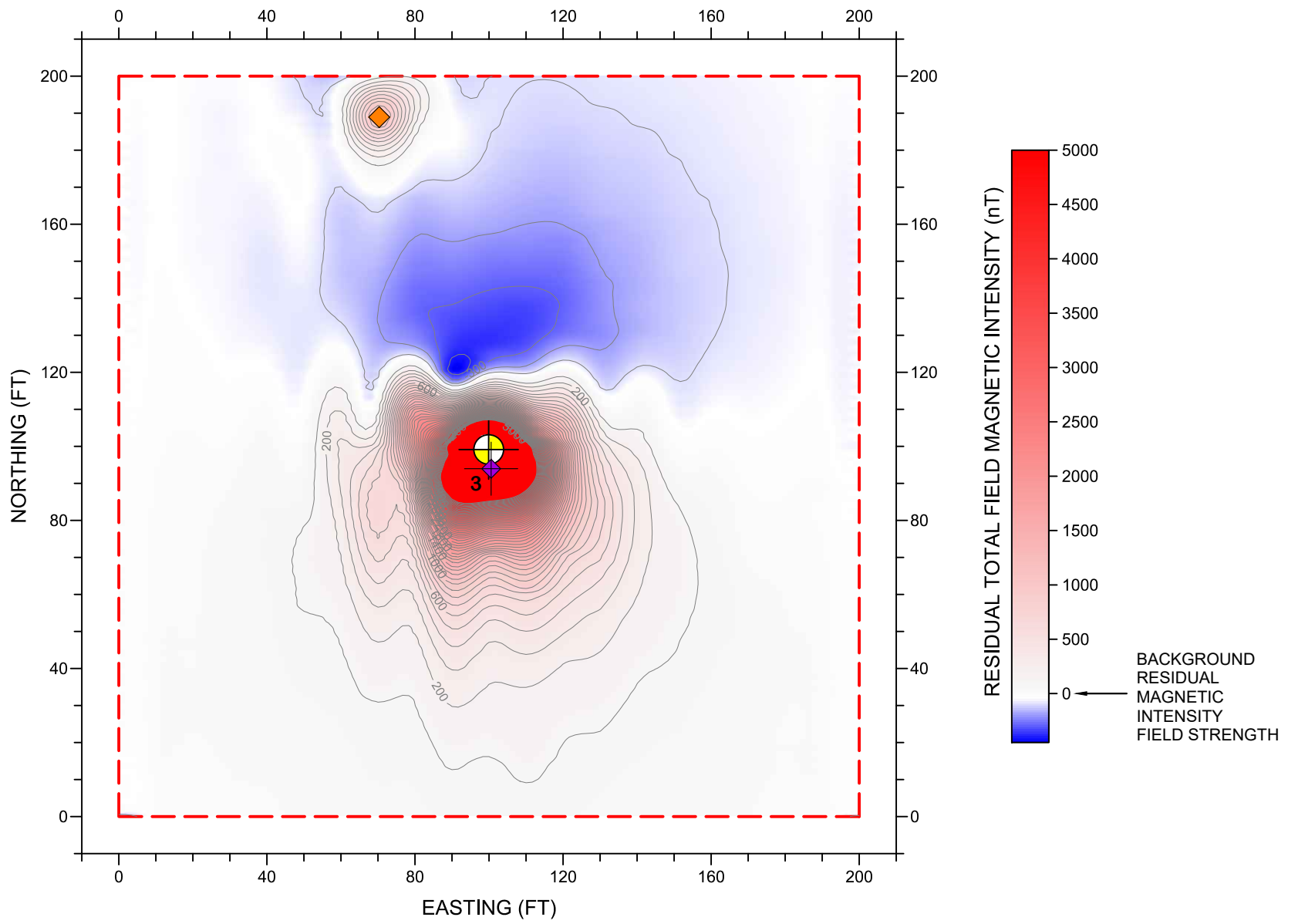


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RESIDUAL TOTAL FIELD MAGNETIC INTENSITY CONTOUR MAP - SUSPECTED OIL WELL 3-10 WEST TERMINUS SAND CREEK ROAD		
LOCATION: BRENTWOOD, CALIFORNIA		
CLIENT: ENGEO		
JOB # : NS205129	DATE: OCTOBER 2020	PLATE 2
DRAWN BY: G.RANDALL	APPROVED BY: DJB	
<i>David J. Bissiri</i> 10/29/2020		



LEGEND	
	LIMITS OF GEOPHYSICAL SURVEY
	RESIDUAL TOTAL FIELD MAGNETIC INTENSITY (CONTOUR INTERVAL = 100 nT)
	SUSPECTED WELL LOCATION
	ENGEO FIELD STAKE
	SUSPECTED IRON DEBRIS

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RESIDUAL TOTAL FIELD MAGNETIC INTENSITY CONTOUR MAP - SUSPECTED OIL WELL 36-10 WEST TERMINUS SAND CREEK ROAD		
LOCATION: BRENTWOOD, CALIFORNIA		
CLIENT: ENGEO		
JOB #. NS205129	DATE: OCTOBER 2020	PLATE 3
DRAWN BY: G.RANDALL	APPROVED BY: DJB	
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APPENDIX B – Geophysical Methods

Magnetometer (MAG) Survey

1.0 MAGNETOMETER (MAG) SURVEY

1.1 METHODOLOGY

A magnetometer measures variations in the earth's magnetic field. These variations can be caused by geologic features or by buried ferrous objects such as underground storage tanks, drums, utilities, etc. Most modern magnetometers have two sensors that simultaneously measure the total intensity of the earth's magnetic field, often referred to as "Total Field Mag or (TFM). Depending on the orientation of the sensors, these data can then be used to determine the vertical or horizontal gradient of the earth's magnetic field. Alternatively, the dual sensors can be used to measure the TFM at two locations simultaneously.

1.2 DATA ACQUISITION



NORCAL conducted the MAG survey using a Geometrics **G858-G** magnetic gradiometer. This instrument is based on cesium vapor optical pump technology and can measure the earth's magnetic field at a rate of ten times per second. The **G858-G** consists of a control console and two optical pump sensors mounted on an aluminum staff. The console features a built-in memory that stores the readings from both sensors (TFM), the computed vertical magnetic gradient (VMG) between the two sensors, and the survey grid information. The photo at left shows the VMG in use.

At both survey locations, we collected TFM data at approximate 2.5- to 3.0-ft intervals along east-west trending lines spaced 10-ft apart over a 170 X 270-foot survey grid. This resulted in a total of 1,954 VMG Stations. The limits of the VMG survey are shown on Plates 1 and 2.

1.3 DATA ANALYSIS

Upon completion of the MAG survey we downloaded the magnetic data using the computer program **MagMap2000** by Geometrics of San Jose, California. We also used this software to edit and filter the data and format them for graphics processing. We then used the computer program **Surfer 16.0**, by Golden Software, to contour and plot the TFM data from the top sensor, as shown on Plate 2. We decided to display TFM contours rather than VMG contours because the former represent a greater depth of investigation. We chose the TFM response of the top sensor because it is typically less affected by interference from ground clutter than the bottom sensor.

The TFM data collected at each site were downloaded to a computer using the computer program ***Magmap 2000*** by Geometrics, Inc. of San Jose, CA. This program was used to despoke the data and convert them to x,y,z format for subsequent contouring. The formatted data were then input to the program ***Surfer 16.0*** by Golden Software of Golden, CO. This program computed the residual component of TFM data and created a color contoured map illustrating variations in residual values throughout each survey area. The resulting maps are shown on Plates 2 and 3.

Note that the residual component of the TFM is what remains after the site-wide average is removed. This is a means of eliminating regional trends and focusing on local magnetic variations. Furthermore, it reduces the size of the values from tens of thousands of nano-Teslas (earth's total field) to tens or hundreds of nT (local variations) that are easier to deal with.

1.4 LIMITATIONS

Typically, only buried objects containing ferrous metal can be detected using a magnetometer. The detection capabilities of a magnetometer are directly proportional to the volume of ferrous metal the object contains and inversely proportional to its depth of burial. Consequently, the deeper an object is buried, the larger it must be in order to be detected. Even buried objects with the proper composition that lie within the depth of investigation of the magnetometer may not be detected if their signatures are masked by overlying metal objects or surface structures.

APPENDIX C – Terracon Standard of Care, Limitation, and Reliance

Standard of Care

The scope of NORCAL's services for this project consisted of using geophysical methods to characterize the shallow subsurface. The accuracy of our findings is subject to specific site conditions and limitations inherent to the techniques used. We performed our services in a manner consistent with the standard of care ordinarily exercised by members of the profession currently employing similar methods. No warranty, with respect to the performance of services or products delivered under this agreement, expressed or implied, is made by NORCAL.

Additional Scope Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable or not present during these services, and we cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this confirmation sampling. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

Reliance

This report has been prepared for the exclusive use of Engeo; and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Engeo and NORCAL. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Master Subconsultant Agreement, Reference No. PNS205129, dated October 8, 2020, between NORCAL and Engeo. The limitation of liability defined in the Terms and Conditions is the aggregate limit of NORCAL's liability to the client and all relying parties unless otherwise agreed in writing.