

August 19, 2014

RECEIVED

By Alameda County Environmental Health at 10:54 am, Aug 20, 2014

Subject: Jordan Ranch Property – Former Leaking Underground Storage Tank
Dublin, California

PERJURY STATEMENT

“I declare, that to the best of my knowledge at the present time, the information and/or recommendations contained in the attached document are true and correct.”

Submitted by Responsible Party:



ROBERT RADANOVICH
BJP-ROF Jordan Ranch, LLC
5000 Hopyard Road, #170
Pleasanton, CA 94588

Project No.
7828.000.001

August 18, 2014

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Subject: Jordan Ranch Parcel H (Case #R00002918)
Dublin, California

SOIL GAS SAMPLING REPORT – FIFTH ROUND

Reference: Department of Toxic Substance Control (DTSC); Final Advisory Active Soil Gas Investigations; April 2012.

Dear Mr. Wickham:

ENGEO conducted the fifth round of soil gas sampling at the Jordan Ranch Parcel H (Site), located in Dublin, California (Figure 1). The soil gas sampling was performed to evaluate potential vapor intrusion concerns within the former underground storage tank (UST) area (Figure 2).

BACKGROUND

There are currently no structures within the former UST area. Construction of high-density residential units within the Site may be planned for sometime in the future. As part of the proposed future development, up to 5 vertical feet of engineered fill will be placed on top of the existing grade for drainage purposes.

Four permanent soil gas wells were installed in the former UST area in June 2012. The soil gas wells were sampled in June 2012, October 2012, and February 2013. During all three sampling events, constituents were not detected above the residential environmental screening levels (ESLs) listed in Table E-2 published by the Regional Water Quality Control Board, San Francisco Region (SFRWQCB) and the residential California Human Health Screening Levels (CHHSLs) published by Department of Toxic Substances Control (DTSC); with the exception of one detection of benzene at 94 $\mu\text{g}/\text{m}^3$. In February 2014, two new soil gas wells (SG-5 and SG-6) were installed to the north and south of the UST basin backfill (Figure 2) in accordance with DTSC guidance (2012) and the County approved workplan dated January 15, 2014. During the February 2014 sampling event, all six wells were sampled with a helium shroud. For the February 2014 event, TPHg was detected at concentrations ranging from 900 to 34,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Benzene was detected only in well SG-6 at a concentration of 50 $\mu\text{g}/\text{m}^3$.

Elevated concentrations of total petroleum hydrocarbons as gasoline (TPHg) and benzene have been detected in shallow groundwater (within 20 feet of the ground surface); however, these groundwater zones are present in perched, thin, discontinuous lenses separated by large intervals of dry soil. As a result, the total contaminant mass present in these groundwater zones is relatively minor. The relatively limited detections in soil gas are attributed to the lack of significant quantities of contaminant mass within these groundwater zones. Furthermore, the remedial excavation of the former UST basin in 2011 removed the majority of the petroleum-impacted soil.

SOIL GAS SAMPLING

We collected soil gas samples from the six soil gas monitoring wells on June 26, 2014. A helium shroud provided by McCampbell Analytical Laboratory was used for leak detection. We performed the sample collection in accordance with the 2012 Department of Toxic Substances Control (DTSC) guidance as follows:

- Prior to the connection of the sampling apparatus (“sample train”) to the well casing and system, we performed a “shut-in” test to assess potential leaks in the system. The test involved capping the end of the manifold, then applying a vacuum with the vacuum pump, closing the purge valve, and observing the vacuum gauge for two minutes to determine if there was a drop in vacuum. We observed no significant decreases in vacuum during the shut-in tests performed for this sampling event.
- We then connected the sample train to the well casing by threading the permanent Swagelok® fitting on the well casing onto the manifold. The sample train consisted of a stainless steel twin summa manifold with built in flow controller set to 100-200 ml/min, which was encompassed in a helium shroud provided by McCampbell Analytical. The sample train is shown here: <http://www.youtube.com/watch?v=pXsOquN8Rw8#t=91>. A purge vacuum pump was attached to the manifold and one well volume of soil gas was purged from each well. Purge specifications are provided in Table A below.

TABLE A
Summary of Purging Process

| Casing Length (feet) | Casing Volume Per Foot (ml) | Total Casing Volume (ml) | Sand Pack Pore Volume (ml) (50% Porosity) | Total Well Volume (ml) | Minutes (1x) |
|----------------------|-----------------------------|--------------------------|---|------------------------|--------------|
| 9.5 | 5 | 47.5 | 1,390 | 1437.5 | 9.6 |

Notes: Purge minutes are based on a flowrate of 150 ml/min
Sandpack is 3" diameter by 2 feet in length

- After purging was completed, a 20% helium content was established in the shroud and confirmed with a field meter prior to sampling. Once the 20% helium content was established, samples were collected by opening the sample canister valve and allowing the sample canister to extract soil gas until the vacuum in the sample canister reached approximately 5 inches of mercury. Soil gas well field sampling logs are attached.

- We labeled each sample canister with a unique identification number, sampling time, pre- and post-sample vacuum readings; and the six soil gas samples were submitted to a State certified laboratory for analysis of TPHg and volatile organic compounds (VOCs) by EPA Test Method TO-15; and methane, carbon dioxide, oxygen, and helium by EPA Test Method D1946.

LABORATORY ANALYTICAL RESULTS

TPHg was not detected above the laboratory reporting limit of 720 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Benzene was not detected above the laboratory report limit of $1.6 \mu\text{g}/\text{m}^3$. Table 1 (attached) provides a cumulative summary of soil gas analytical data for the six monitoring wells. Applicable soil gas screening levels published by SWRCB and DTSC are provided.

According to DTSC (2012), if the concentration of helium in the sample canister is less than 5% of the helium concentration in the shroud, then the sample results are considered valid. The highest helium concentration detected in the samples was 0.32%. This is 0.016% of the 20% helium concentration that was maintained in the shroud. Based on this, we conclude that an adjustment factor is not required for the detected compounds.

CONCLUSION

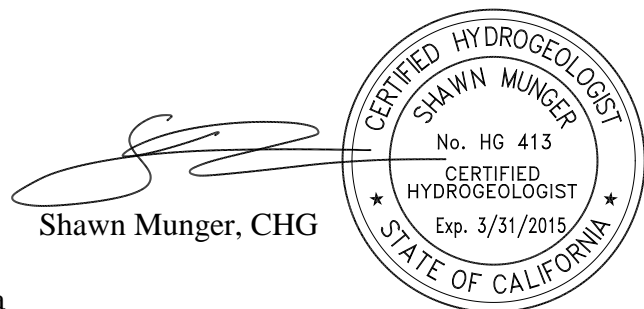
Based on the soil gas data collected from the five quarterly monitoring events, there does not appear to be a vapor intrusion risk at the site, considering a residential land use scenario. No further soil gas monitoring is recommended.

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

Sincerely,

ENGEO Incorporated


Morgan Johnson



Attachments: Table 1 – Soil Gas Analytical Data
Figures
Soil Gas Well Field Sampling Logs
Eurofins Air Toxics, Inc., Certified Laboratory Report and Chain of Custody
Perjury Statement

cc: Mr. Ravi Nandwana, BJP-ROF Jordan Ranch, LLC
Mr. Kevin Fryer, BJP-ROF Jordan Ranch, LLC

TABLE 1

Soil Gas Analytical Data

Table 1
Soil Gas Analytical Data
Jordan Ranch Parcel H

| Sample ID | Date | 1,1-DFA | 1,2,4-TMB | 1,3,5-TMB | 1,3-BTD | 2,2,4-TMP | 2-BTN | 2-Prop | 4-ET | 4-MP | Acetone | Benzene | Carbon Dioxide | CDS | CHX | CLF | EB | Ethanol | Freon 11 | Helium | Hexane | HPT | m,p-Xyl | Methane | NPTH | Oxygen | o-Xyl | Toulene | TPHg |
|---------------------------------------|-----------|---------|-----------|-----------|---------|-----------|-------|--------|-------|-------|---------|------------|----------------|------|-------|-------|-------|---------|----------|--------|---------|-------|---------|---------|------|---------|-------|---------|--------|
| | | µg/m3 | µg/m3 | µg/m3 | µg/m3 | µg/m3 | µg/m3 | µg/m3 | µg/m3 | µg/m3 | µg/m3 | µg/m3 | µg/m3 | uL/L | µg/m3 | µg/m3 | µg/m3 | µg/m3 | µg/m3 | µg/m3 | % | µg/m3 | µg/m3 | µg/m3 | uL/L | µg/m3 | uL/L | µg/m3 | µg/m3 |
| SG-1 | 6/29/2012 | <9.1 | 6.2 | <4.1 | 4.2 | 28 | <9.9 | 22 | <4.1 | <3.4 | 64 | 14 | NR | 12 | 7.9 | <4.1 | <3.6 | <6.3 | 13 | NR | 10 | 5.6 | 7.1 | NR | <18 | NR | <3.6 | 9.7 | 3,900 |
| SG-1 | 10/4/2012 | <14 | <6.2 | <6.2 | <2.8 | <5.9 | <15 | <12 | <6.2 | <5.2 | <30 | <4 | NR | <16 | <4.3 | <6.2 | <5.5 | <9.5 | 18 | NR | <4.4 | <5.2 | <5.5 | NR | <26 | NR | <5.5 | <4.7 | 650 |
| SG-1 | 2/21/2013 | <13 | <6.1 | <6.1 | <2.7 | <5.8 | <14 | <12 | <6.1 | <5 | <29 | <3.9 | NR | <15 | <4.2 | <6 | <5.4 | <9.3 | <6.9 | NR | <4.4 | <5.1 | <5.4 | NR | <26 | NR | <5.4 | <4.6 | <250 |
| SG-1 | 3/13/2014 | NR | <2.5 | <2.5 | <1.1 | NR | <75 | NR | <2.5 | <2.1 | <60 | <1.6 | 27,000 | <1.6 | <18 | <2.4 | <2.2 | <96 | 3.1 | 0.035 | 26 | <21 | <6.6 | <1 | <5.3 | 66,000 | <6.6 | <1.9 | 900 |
| SG-1 | 6/26/2014 | NR | <2.5 | <2.5 | <1.1 | NR | <75 | <50 | <2.5 | <2.1 | <60 | <1.6 | 94,000 | <1.6 | <18 | <2.4 | <2.2 | <96 | NR | 0.063 | <18 | <21 | <6.6 | 2.0 | <5.3 | 91,000 | <6.6 | <1.9 | <720 |
| SG-2-1X | 6/29/2012 | <12 | 9.7 | 7.4 | <2.4 | 5.5 | <13 | 79 | 12 K | <4.4 | <26 | 11 | NR | <13 | <3.7 | <5.2 | 6 | 12 | 13 | NR | <3.8 | <4.4 | 18 | NR | <22 | NR | 13 | 12 | 3,000 |
| SG-2-3X | 6/29/2012 | <8.7 | 7.7 | 5.3 | <1.8 | <3.8 | <9.5 | <7.9 | 4 | <3.3 | 20 | 6.6 | NR | <10 | <2.8 | <3.9 | <3.5 | 7.7 | 14 | NR | <2.8 | <3.3 | 13 | NR | <17 | NR | 8 | 11 | 1,900 |
| SG-2-10X | 6/29/2012 | <8.4 | 4 | <3.8 | <1.7 | <3.6 | <9.1 | <7.6 | <3.8 | <3.2 | 32 | 5.2 | NR | <9.6 | <2.7 | <3.8 | <3.4 | 12 | 16 | NR | <2.7 | <3.2 | 6.4 | NR | <16 | NR | 3.9 | 9.9 | 1,100 |
| SG-2 | 10/4/2012 | 98 | <6.2 | <6.2 | <2.8 | <5.9 | <15 | <12 | <6.2 | <5.2 | <30 | <4 | NR | <16 | <4.3 | <6.2 | <5.5 | <9.5 | 14 | NR | <4.4 | <5.2 | <5.5 | NR | <26 | NR | <5.5 | <4.7 | 450 |
| SG-2 | 2/21/2013 | 40 | <5.9 | <5.9 | <2.7 | <5.6 | <14 | <12 | <5.9 | <5 | <29 | <3.9 | NR | <15 | <4.2 | <5.9 | <5.2 | 23 | <6.8 | NR | <4.3 | <5 | <5.2 | NR | <25 | NR | <5.2 | 5.8 | <250 |
| SG-2 | 3/13/2014 | NR | <2.5 | <2.5 | <1.1 | NR | <75 | NR | <2.5 | 5.0 | <60 | <1.6 | 15,000 | <1.6 | <18 | <2.4 | <2.2 | <96 | 3.1 | 0.013 | 40 | <21 | <6.6 | 23 | <5.3 | 110,000 | <6.6 | <1.9 | 2,000 |
| SG-2 | 6/26/2014 | NR | <2.5 | <2.5 | <1.1 | NR | <75 | <50 | <2.5 | <2.1 | <60 | <1.6 | 19,000 | <1.6 | <18 | <2.4 | <2.2 | <96 | NR | 0.016 | <18 | <21 | <6.6 | 5.1 | <5.3 | 81,000 | <6.6 | <1.9 | <720 |
| SG-3 | 6/29/2012 | <36 | 22 | <16 | 110 | <16 | 57 | <33 | 16 J | <14 | 2100 | 94 | NR | 160 | 18 | 20 | 41 | 100 | <19 | NR | 210 | 120 | 140 | NR | <70 | NR | 41 | 220 | 30,000 |
| SG-3 | 10/4/2012 | <16 | <7.1 | <7.1 | <3.2 | <6.8 | <17 | <14 | <7.1 | <5.9 | <34 | <4.6 | NR | 37 | <5 | <7 | <6.3 | <11 | 8.5 | NR | <5.1 | <5.9 | <6.3 | NR | <30 | NR | <6.3 | <5.4 | 1,500 |
| SG-3 | 2/21/2013 | <25 | <11 | <11 | <5.1 | <11 | <27 | <23 | <11 | <9.5 | <55 | <7.4 | NR | <29 | <8 | <11 | <10 | <17 | <13 | NR | <8.2 | <9.5 | <10 | NR | <49 | NR | <10 | <8.7 | <470 |
| SG-3 | 3/13/2014 | NR | <2.5 | <2.5 | <1.1 | NR | <75 | NR | <2.5 | <2.1 | <60 | <1.6 | 9,500 | <1.6 | <18 | <2.4 | <2.2 | <96 | <2.8 | 0.023 | 1,100 | <21 | <6.6 | <1 | <5.3 | 150,000 | <6.6 | <1.9 | 1,500 |
| SG-3 | 6/26/2014 | NR | <2.5 | <2.5 | <1.1 | NR | <75 | <50 | <2.5 | <2.1 | <60 | <1.6 | 25,000 | <1.6 | <18 | <2.4 | <2.2 | <96 | NR | 0.0089 | <18 | <21 | <6.6 | <2.0 | <5.3 | 180,000 | <6.6 | <1.9 | <720 |
| SG-4 | 6/29/2012 | <9.2 | 7.8 | <4.2 | <1.9 | <4 | <10 | <8.4 | <4.2 | 3.7 | 540 | 5.2 | NR | <11 | <2.9 | <4.2 | 5.1 | <6.4 | <4.8 | NR | <3 | <3.5 | 18 | NR | <18 | NR | 5.5 | 26 | 820 |
| SG-4 | 10/4/2012 | <14 | <6.5 | <6.5 | <2.9 | <6.2 | <16 | <13 | <6.5 | <5.4 | <31 | <4.2 | NR | <16 | <4.5 | <6.4 | <5.7 | <9.9 | <7.4 | NR | <4.6 | <5.4 | <5.7 | NR | <28 | NR | <5.7 | <5 | <270 |
| SG-4 | 2/21/2013 | <13 | <5.8 | <5.8 | <2.6 | <5.6 | <14 | <12 | <5.8 | <4.9 | 100 | <3.8 | NR | <15 | <4.1 | <5.8 | <4.5 | <9 | <6.7 | NR | <4.2 | <4.9 | <5.2 | NR | <25 | NR | <5.2 | <5.2 | <240 |
| SG-4 | 3/13/2014 | NR | <2.5 | <2.5 | <1.1 | NR | <75 | NR | <2.5 | <2.1 | <60 | <1.6 | 750 | <1.6 | <18 | <2.4 | <2.2 | <96 | <2.8 | 0.0068 | 96,000 | <21 | <6.6 | 8.4 | <5.3 | 180,000 | <6.6 | <1.9 | 34,000 |
| SG-4 | 6/26/2014 | NR | <2.5 | <2.5 | <1.1 | NR | <75 | <50 | <2.5 | <2.1 | <60 | <1.6 | 8500 | <1.6 | <18 | <2.4 | <2.2 | <96 | NR | 0.013 | <18 | <21 | <6.6 | <2.0 | <5.3 | 200,000 | <6.6 | <1.9 | <720 |
| SG-5 | 3/13/2014 | NR | <2.5 | <2.5 | <1.1 | NR | <75 | NR | <2.5 | <2.1 | <60 | <1.6 | 1,700 | <1.6 | 21 | <2.4 | <2.2 | <96 | <2.8 | 0.050 | 110,000 | <21 | <6.6 | 8.4 | <5.3 | 170,000 | <6.6 | <1.9 | 25,000 |
| SG-5 | 6/26/2014 | NR | <2.5 | <2.5 | <1.1 | NR | <75 | <50 | <2.5 | <2.1 | <60 | <1.6 | 9700 | <1.6 | <18 | <2.4 | <2.2 | <96 | NR | 0.045 | <18 | <21 | <6.6 | <2.0 | <5.3 | 170,000 | <6.6 | <1.9 | <720 |
| SG-6 | 4/22/2014 | NR | <2.5 | <2.5 | <1.1 | NR | <75 | NR | <2.5 | <2.1 | <60 | 50 | 5,100 | 29 | <18 | <2.4 | 3.5 | <96 | <2.85 | 0.035 | 58 | <21 | <6.6 | 11 | <5.3 | 210,000 | <6.6 | 32 | 2,200 |
| SG-6 | 6/26/2014 | NR | <2.5 | <2.5 | <1.1 | NR | <75 | <50 | <2.5 | <2.1 | <60 | <1.6 | 27,000 | 5.9 | <18 | <2.4 | <2.2 | <96 | NR | 0.32 | <18 | <21 | <6.6 | <2.0 | <5.3 | 170,000 | <6.6 | <1.9 | <720 |
| CHHSL (Residential - Soil Gas) | | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 36.2 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| ESL (Table E-2 Residential -Soil Gas) | | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 16,000,000 | 42 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| DTSC 2003 Advisory 1,1-DFA | | 10,000 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |

Notes:
ET-Ethyltoluene
TMB-Trimethylbenzene
Prop-Propanol
TMP-Trimethylpentane
PCE-Tetrachloroethylene
EB-Ethylbenzene
BTD-Butadiene
CDS-Carbon Disulfide
BTN-Butanone
CLF-Chloroform
CHX-Cyclohexane
HPT-Heptane
4-MP-4-Methyl-2-pentanone
NPTH-NRpthalene
ND-Not detected above laboratroy reporting limits
NR-Not reported
J-Estimated Value
K-Potential Interference

FIGURES

Figure 1 – Site Vicinity Map

Figure 2 – Concentrations of VOCs in Soil Gas

COPYRIGHT © 2014 BY ENGeo INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGeo INCORPORATED.



BASE MAP SOURCE: GOOGLE EARTH



VICINITY MAP
JORDAN RANCH - PARCEL H
DUBLIN, CALIFORNIA

PROJECT NO.: 7828.000.001

DATE: AS SHOWN

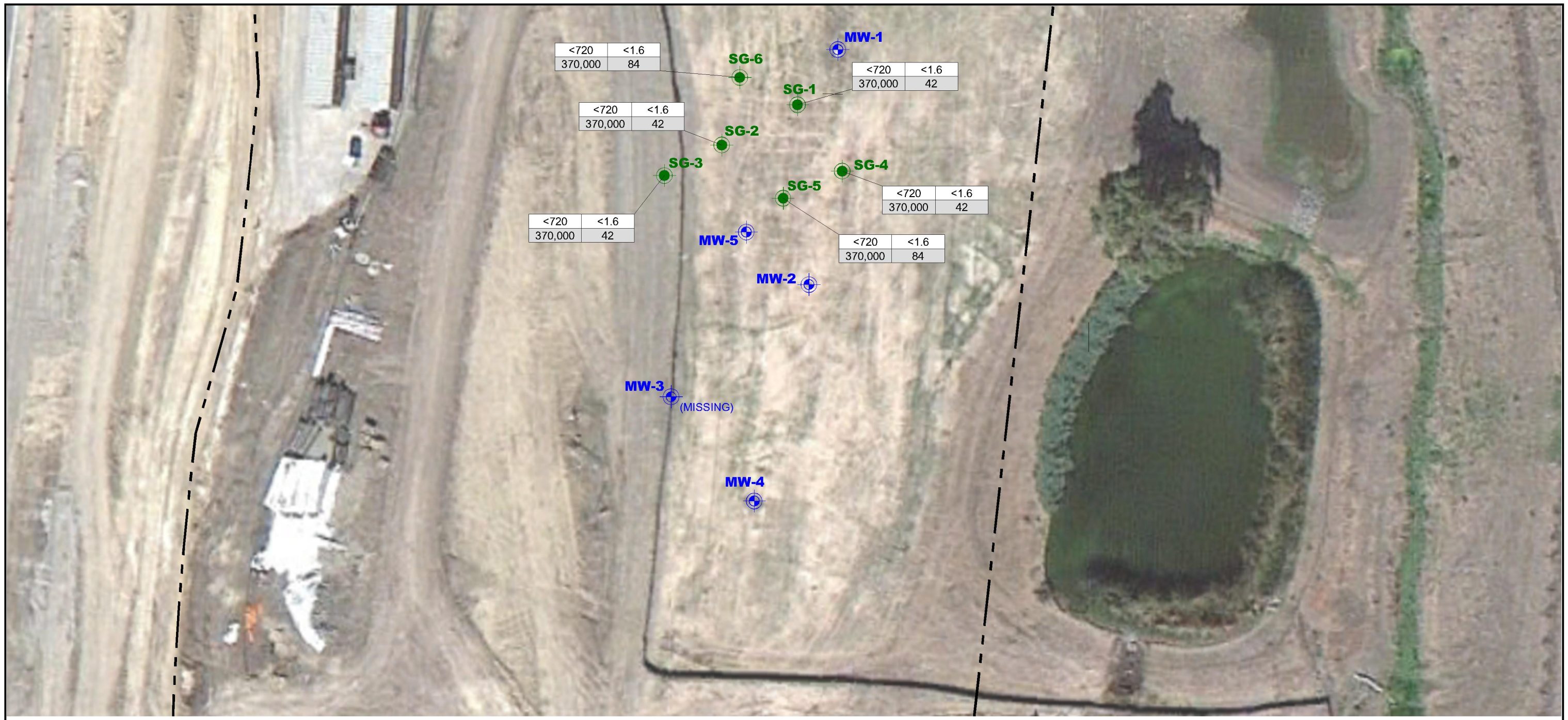
DRAWN BY: LL

CHECKED BY: SM



FIGURE NO.

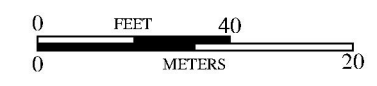
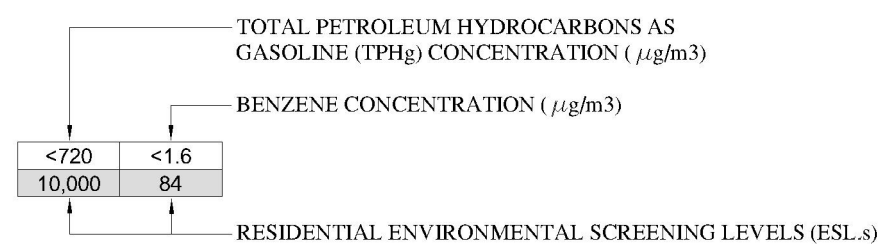
1

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



EXPLANATION

- MW-5**  APPROXIMATE LOCATION OF MONITORING WELL
- SG-6**  APPROXIMATE LOCATION OF SOIL GAS WELL



BASE MAP SOURCE: GOOGLE EARTH, ST. ANTON

| | | | | |
|---|--|--|---------------------------|------------|
|  | CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS IN SOIL GAS - JUNE 2014 JORDAN RANCH - PARCEL H DUBLIN, CALIFORNIA | | PROJECT NO.: 7828.000.001 | FIGURE NO. |
| | | | SCALE: AS SHOWN | 2 |
| | | | DRAWN BY: LL | |

Soil Gas Well Field Sampling Logs

7828.000.001
August 18, 2014

SOIL GAS WELL FIELD SAMPLING LOG



| | | | |
|--------------|--|----------------|-------------|
| Project: | Jordan Ranch | Well ID | SG-1 |
| Date: | 6/26/2014 | | |
| Project No.: | 7828.000.001 | | |
| Location: | NE Fallon Road and Central Pwky, Dublin, CA. | | |
| Sampler: | Matt M. | | |
| Activity: | <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> One Time Event | | |

WELL CONSTRUCTION

| | |
|---|--------|
| Post run tubing DPT <input type="checkbox"/> | Notes: |
| Well constructed with cement/bentonite seal and sand pack <input checked="" type="checkbox"/> | |

PURGING

| <input type="checkbox"/> Summa Canister <input checked="" type="checkbox"/> Peristaltic Pump | | | | | | | | |
|--|----------------------|--------------------------|---|------------------------|------------------------|------------------------|-------------------------|--------|
| Casing Length (ft) | Casing Vol/Foot (ml) | Total Casing Volume (ml) | Sand Pack Pore Volume (ml) (50% Porosity) | Total Well Volume (ml) | Minutes (1 casing vol) | Minutes (3 casing vol) | Minutes (10 casing vol) | Notes: |
| 9.5 | 5 | 47.5 | 1,390 | 1,437.50 | 9.6 | 28.7 | 95.8 | |

Notes: 1) purge minutes are based on a flowrate of 150 ml/min 2) sand pack pore volume = 3.14 x (boring radius²) x length of sand pack x 0.5

SAMPLING

| |
|---|
| <input checked="" type="checkbox"/> 1L Summa <input type="checkbox"/> 6L Summa <input type="checkbox"/> Sorbent Tubing |
| Shut In Test: Shut-in test @ 8:38am , Purge @ 8:45am |
| 1" or less drop in mmHg over 5 minute period: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, tighten fittings and perform second shut in test |

| | | |
|----------------------|---|--------|
| Sampling Start Time: | 9:22am | Notes: |
| Start Vacuum: | -30 | Notes: |
| End Time: | 9:27am | Notes: |
| End Vacuum: | -6 | Notes: |
| Start Vacuum: | | Notes: |
| Leak Detection: | <input type="checkbox"/> 1,1-DFA <input checked="" type="checkbox"/> Helium | |

SOIL GAS WELL FIELD SAMPLING LOG



| | | | |
|--------------|--|----------------|-------------|
| Project: | Jordan Ranch | Well ID | SG-2 |
| Date: | 6/26/2014 | | |
| Project No.: | 7828.000.001 | | |
| Location: | NE Fallon Road and Central Pwky, Dublin, CA. | | |
| Sampler: | Matt M. | | |
| Activity: | <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> One Time Event | | |

WELL CONSTRUCTION

| | |
|---|--------|
| Post run tubing DPT <input type="checkbox"/> | Notes: |
| Well constructed with cement/bentonite seal and sand pack <input checked="" type="checkbox"/> | |

PURGING

| <input type="checkbox"/> Summa Canister | | <input checked="" type="checkbox"/> Peristaltic Pump | | | | | | |
|---|----------------------|--|---|------------------------|------------------------|------------------------|-------------------------|-------------------------------|
| Casing Length (ft) | Casing Vol/Foot (ml) | Total Casing Volume (ml) | Sand Pack Pore Volume (ml) (50% Porosity) | Total Well Volume (ml) | Minutes (1 casing vol) | Minutes (3 casing vol) | Minutes (10 casing vol) | Notes: 3 well casings purged. |
| 9.5 | 5 | 47.5 | 1,390 | 1,437.50 | 9.6 | 28.7 | 95.8 | |

Notes: 1) purge minutes are based on a flowrate of 150 ml/min 2) sand pack pore volume = 3.14 x (boring radius²) x length of sand pack x 0.5

SAMPLING

| |
|--|
| <input checked="" type="checkbox"/> 1L Summa <input type="checkbox"/> 6L Summa <input type="checkbox"/> Sorbent Tubing |
|--|

Shut In Test: Shut-in test @ 10:13am , Purge @ 10:19am

| | | |
|---|---|---|
| 1" or less drop in mmHg over 5 minute period: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No, tighten fittings and perform second shut in test |
|---|---|---|

| | | |
|----------------------|---|--------|
| Sampling Start Time: | 10:49 | Notes: |
| Start Vacuum: | -29 | Notes: |
| End Time: | 10:55am | Notes: |
| End Vacuum: | -5 | Notes: |
| Start Vacuum: | | Notes: |
| Leak Detection: | <input type="checkbox"/> 1,1-DFA <input checked="" type="checkbox"/> Helium | |

SOIL GAS WELL FIELD SAMPLING LOG



| | | | |
|--------------|--|----------------|-------------|
| Project: | Jordan Ranch | Well ID | SG-3 |
| Date: | 6/26/2014 | | |
| Project No.: | 7828.000.001 | | |
| Location: | NE Fallon Road and Central Pwky, Dublin, CA. | | |
| Sampler: | Matt M. | | |
| Activity: | <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> One Time Event | | |

WELL CONSTRUCTION

| | |
|---|--------|
| Post run tubing DPT <input type="checkbox"/> | Notes: |
| Well constructed with cement/bentonite seal and sand pack <input checked="" type="checkbox"/> | |

PURGING

| <input type="checkbox"/> Summa Canister <input checked="" type="checkbox"/> Peristaltic Pump | | | | | | | | |
|--|----------------------|--------------------------|---|------------------------|------------------------|------------------------|-------------------------|-------------------------------|
| Casing Length (ft) | Casing Vol/Foot (ml) | Total Casing Volume (ml) | Sand Pack Pore Volume (ml) (50% Porosity) | Total Well Volume (ml) | Minutes (1 casing vol) | Minutes (3 casing vol) | Minutes (10 casing vol) | Notes: 3 well casings purged. |
| 9.5 | 5 | 47.5 | 1,390 | 1,437.50 | 9.6 | 28.7 | 95.8 | |

Notes: 1) purge minutes are based on a flowrate of 150 ml/min 2) sand pack pore volume = 3.14 x (boring radius²) x length of sand pack x 0.5

SAMPLING

| |
|--|
| <input checked="" type="checkbox"/> 1L Summa <input type="checkbox"/> 6L Summa <input type="checkbox"/> Sorbent Tubing |
|--|

Shut In Test: Shut-in test @ 11:14am , Purge @ 11:19am

| | | |
|---|---|---|
| 1" or less drop in mmHg over 5 minute period: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No, tighten fittings and perform second shut in test |
|---|---|---|

| | | |
|----------------------|---|--------|
| Sampling Start Time: | 11:53am | Notes: |
| Start Vacuum: | -30 | Notes: |
| End Time: | 11:59am | Notes: |
| End Vacuum: | -6 | Notes: |
| Start Vacuum: | | Notes: |
| Leak Detection: | <input type="checkbox"/> 1,1-DFA <input checked="" type="checkbox"/> Helium | |

SOIL GAS WELL FIELD SAMPLING LOG



| | | | |
|--------------|--|----------------|-------------|
| Project: | Jordan Ranch | Well ID | SG-4 |
| Date: | 6/26/2014 | | |
| Project No.: | 7828.000.001 | | |
| Location: | NE Fallon Road and Central Pwky, Dublin, CA. | | |
| Sampler: | Matt M. | | |
| Activity: | <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> One Time Event | | |

WELL CONSTRUCTION

| | |
|---|--------|
| Post run tubing DPT <input type="checkbox"/> | Notes: |
| Well constructed with cement/bentonite seal and sand pack <input checked="" type="checkbox"/> | |

PURGING

| <input type="checkbox"/> Summa Canister <input checked="" type="checkbox"/> Peristaltic Pump | | | | | | | | |
|--|----------------------|--------------------------|---|------------------------|------------------------|------------------------|-------------------------|-------------------------------|
| Casing Length (ft) | Casing Vol/Foot (ml) | Total Casing Volume (ml) | Sand Pack Pore Volume (ml) (50% Porosity) | Total Well Volume (ml) | Minutes (1 casing vol) | Minutes (3 casing vol) | Minutes (10 casing vol) | Notes: 3 well casings purged. |
| 9.5 | 5 | 47.5 | 1,390 | 1,437.50 | 9.6 | 28.7 | 95.8 | |

Notes: 1) purge minutes are based on a flowrate of 150 ml/min 2) sand pack pore volume = 3.14 x (boring radius²) x length of sand pack x 0.5

SAMPLING

| |
|--|
| <input checked="" type="checkbox"/> 1L Summa <input type="checkbox"/> 6L Summa <input type="checkbox"/> Sorbent Tubing |
|--|

Shut In Test: Shut-in test @ 12:23pm , Purge @ 12:28pm

| | | |
|---|---|---|
| 1" or less drop in mmHg over 5 minute period: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No, tighten fittings and perform second shut in test |
|---|---|---|

| | | |
|----------------------|--------|--------|
| Sampling Start Time: | 1:06pm | Notes: |
| Start Vacuum: | -30 | Notes: |
| End Time: | 1:12pm | Notes: |
| End Vacuum: | -5 | Notes: |
| Start Vacuum: | | Notes: |

| | |
|-----------------|---|
| Leak Detection: | <input type="checkbox"/> 1,1-DFA <input checked="" type="checkbox"/> Helium |
|-----------------|---|

SOIL GAS WELL FIELD SAMPLING LOG



| | | | |
|--------------|--|----------------|-------------|
| Project: | Jordan Ranch | Well ID | SG-5 |
| Date: | 6/26/2014 | | |
| Project No.: | 7828.000.001 | | |
| Location: | NE Fallon Road and Central Pwky, Dublin, CA. | | |
| Sampler: | Matt M. | | |
| Activity: | <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> One Time Event | | |

WELL CONSTRUCTION

| | |
|---|--------|
| Post run tubing DPT <input type="checkbox"/> | Notes: |
| Well constructed with cement/bentonite seal and sand pack <input checked="" type="checkbox"/> | |

PURGING

| <input type="checkbox"/> Summa Canister | | <input checked="" type="checkbox"/> Peristaltic Pump | | | | | | |
|---|----------------------|--|---|------------------------|------------------------|------------------------|-------------------------|-------------------------------|
| Casing Length (ft) | Casing Vol/Foot (ml) | Total Casing Volume (ml) | Sand Pack Pore Volume (ml) (50% Porosity) | Total Well Volume (ml) | Minutes (1 casing vol) | Minutes (3 casing vol) | Minutes (10 casing vol) | Notes: 3 well casings purged. |
| 9.5 | 5 | 47.5 | 1,390 | 1,437.50 | 9.6 | 28.7 | 95.8 | |

Notes: 1) purge minutes are based on a flowrate of 150 ml/min 2) sand pack pore volume = 3.14 x (boring radius²) x length of sand pack x 0.5

SAMPLING

1L Summa
 6L Summa
 Sorbent Tubing

Shut In Test: Shut-in test @ 12:56pm, Purge @ 1:02pm

1" or less drop in mmHg over 5 minute period:
 Yes
 No, tighten fittings and perform second shut in test

| | | |
|----------------------|--------|--------|
| Sampling Start Time: | 1:39pm | Notes: |
| Start Vacuum: | -29 | Notes: |
| End Time: | 1:44pm | Notes: |
| End Vacuum: | -5 | Notes: |
| Start Vacuum: | | Notes: |

Leak Detection:
 1,1-DFA
 Helium

SOIL GAS WELL FIELD SAMPLING LOG



| | | | |
|--------------|--|----------------|-------------|
| Project: | Jordan Ranch | Well ID | SG-6 |
| Date: | 6/26/2014 | | |
| Project No.: | 7828.000.001 | | |
| Location: | NE Fallon Road and Central Pwky, Dublin, CA. | | |
| Sampler: | Matt M. | | |
| Activity: | <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> One Time Event | | |

WELL CONSTRUCTION

| | |
|---|--------|
| Post run tubing DPT <input type="checkbox"/> | Notes: |
| Well constructed with cement/bentonite seal and sand pack <input checked="" type="checkbox"/> | |

PURGING

| <input type="checkbox"/> Summa Canister | | <input checked="" type="checkbox"/> Peristaltic Pump | | | | | | |
|---|----------------------|--|---|------------------------|------------------------|------------------------|-------------------------|-------------------------------|
| Casing Length (ft) | Casing Vol/Foot (ml) | Total Casing Volume (ml) | Sand Pack Pore Volume (ml) (50% Porosity) | Total Well Volume (ml) | Minutes (1 casing vol) | Minutes (3 casing vol) | Minutes (10 casing vol) | Notes: 3 well casings purged. |
| 9.5 | 5 | 47.5 | 1,390 | 1,437.50 | 9.6 | 28.7 | 95.8 | |

Notes: 1) purge minutes are based on a flowrate of 150 ml/min 2) sand pack pore volume = 3.14 x (boring radius²) x length of sand pack x 0.5

SAMPLING

| |
|--|
| <input checked="" type="checkbox"/> 1L Summa <input type="checkbox"/> 6L Summa <input type="checkbox"/> Sorbent Tubing |
|--|

Shut In Test: Shut-in test @ 2:03pm, Purge @ 2:08pm

| | | |
|---|---|---|
| 1" or less drop in mmHg over 5 minute period: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No, tighten fittings and perform second shut in test |
|---|---|---|

| | | |
|----------------------|---|--------|
| Sampling Start Time: | 3:00pm | Notes: |
| Start Vacuum: | -30 | Notes: |
| End Time: | 3:05pm | Notes: |
| End Vacuum: | -5 | Notes: |
| Start Vacuum: | | Notes: |
| Leak Detection: | <input type="checkbox"/> 1,1-DFA <input checked="" type="checkbox"/> Helium | |

EUROFINS AIR TOXICS, INC.

Certified Laboratory Report and Chain of Custody

7828.000.001
August 18, 2014



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1406A93 A

Report Created for: ENGEO Incorporated
2010 Crow Canyon Place, Ste 250
San Ramon, CA 94583-4634

Project Contact: Morgan Johnson
Project P.O.:
Project Name: #7828.000.001; Jordan Ranch

Project Received: 06/30/2014

Analytical Report reviewed & approved for release on 07/15/2014 by:

Question about
your data?

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
WorkOrder: 1406A93

Glossary Abbreviation

| | |
|--------------|---|
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| TEQ | Toxicity Equivalence |

Quality Control Qualifiers

F2 LCS recovery for this compound is outside of acceptance limits.



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/10/14

WorkOrder: 1406A93
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Helium

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-1 | 1406A93-001A | Soil Gas | 06/26/2014 09:27 | GC26 | 92569 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 13.03 | 26.07 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|----------|--------|--------|----|------------------|
| Helium | 0.063 | 0.0050 | 1 | 07/10/2014 08:05 |

| | | | | | |
|------|--------------|----------|------------------|------|-------|
| SG-2 | 1406A93-002A | Soil Gas | 06/26/2014 10:55 | GC26 | 92569 |
|------|--------------|----------|------------------|------|-------|

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 11.74 | 23.49 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|----------|--------|--------|----|------------------|
| Helium | 0.016 | 0.0050 | 1 | 07/10/2014 08:18 |

| | | | | | |
|------|--------------|----------|------------------|------|-------|
| SG-3 | 1406A93-003A | Soil Gas | 06/26/2014 11:59 | GC26 | 92569 |
|------|--------------|----------|------------------|------|-------|

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 12.64 | 25.27 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|----------|--------|--------|----|------------------|
| Helium | 0.0089 | 0.0050 | 1 | 07/10/2014 08:30 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/10/14

WorkOrder: 1406A93
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Helium

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-4 | 1406A93-004A | Soil Gas | 06/26/2014 13:17 | GC26 | 92569 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.49 | 24.97 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------|--------|--------|----|------------------|
| Helium | 0.013 | 0.0050 | 1 | 07/10/2014 08:43 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-5 | 1406A93-005A | Soil Gas | 06/26/2014 13:44 | GC26 | 92569 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.22 | 24.46 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------|--------|--------|----|------------------|
| Helium | 0.045 | 0.0050 | 1 | 07/10/2014 08:56 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-6 | 1406A93-006A | Soil Gas | 06/26/2014 15:05 | GC26 | 92569 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.88 | 25.73 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------|--------|--------|----|------------------|
| Helium | 0.32 | 0.0050 | 1 | 07/10/2014 09:09 |



Quality Control Report

Client: ENGEO Incorporated
Date Prepared: 7/10/14
Date Analyzed: 7/10/14
Instrument: GC26
Matrix: Soilgas
Project: #7828.000.001; Jordan Ranch

WorkOrder: 1406A93
BatchID: 92569
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %
Sample ID: MB/LCS-92569

QC Summary Report for ASTM D1946-90

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---------|--------------|---------------|--------|------------|---------------|-------------|---------------|
| Helium | ND | 0.0121 | 0.0050 | 0.010 | - | 121 | 60-140 |



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1406A93 **A** ClientCode: ENGE

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Morgan Johnson
 ENGEO Incorporated
 2010 Crow Canyon Place, Ste 250
 San Ramon, CA 94583-4634
 (916) 580-6518 FAX: (925) 866-0199

Email: mjohnson@engeo.com
 cc/3rd Party:
 PO:
 ProjectNo: #7828.000.001; Jordan Ranch

Bill to:
 Chantelle
 ENGEO Incorporated
 2010 Crow Canyon Place, Ste 250
 San Ramon, CA 94583-4634
 AP@engeo.com

Requested TAT: 5 days
Date Received: 06/30/2014
Date Add-On: 07/09/2014
Date Printed: 07/09/2014

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | |
|-------------|-----------|----------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1406A93-001 | SG-1 | Soil Gas | 6/26/2014 9:27 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1406A93-002 | SG-2 | Soil Gas | 6/26/2014 10:55 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1406A93-003 | SG-3 | Soil Gas | 6/26/2014 11:59 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1406A93-004 | SG-4 | Soil Gas | 6/26/2014 13:17 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1406A93-005 | SG-5 | Soil Gas | 6/26/2014 13:44 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1406A93-006 | SG-6 | Soil Gas | 6/26/2014 15:05 | <input type="checkbox"/> | A | | | | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|----------------------|----|--|---|--|---|--|----|--|
| 1 | HELIUM_LC_SOILGAS(%) | 2 | | 3 | | 4 | | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

Prepared by: Jena Alfaro

Add-On Prepared By: Jena Alfaro

Comments: HE LC added 7/9/14

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: ENGEO INCORPORATED
Project: #7828.000.001; Jordan Ranch
Comments: HE LC added 7/9/14

QC Level: LEVEL 2
Client Contact: Morgan Johnson
Contact's Email: mjohnson@engeo.com

Work Order: 1406A93
Date Received: 6/30/2014
Date Add-On: 7/9/2014

| Lab ID | Client ID | Matrix | Test Name | Number of Containers | Bottle & Preservative | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|----------|------------------------|----------------------|-----------------------|------------------------|--------|------------------|--------------------------|--------|
| 1406A93-001A | SG-1 | Soil Gas | ASTM D1946-90 (Helium) | 1 | 1L Summa | 6/26/2014 9:27 | 5 days | | <input type="checkbox"/> | |
| 1406A93-002A | SG-2 | Soil Gas | ASTM D1946-90 (Helium) | 1 | 1L Summa | 6/26/2014 10:55 | 5 days | | <input type="checkbox"/> | |
| 1406A93-003A | SG-3 | Soil Gas | ASTM D1946-90 (Helium) | 1 | 1L Summa | 6/26/2014 11:59 | 5 days | | <input type="checkbox"/> | |
| 1406A93-004A | SG-4 | Soil Gas | ASTM D1946-90 (Helium) | 1 | 1L Summa | 6/26/2014 13:17 | 5 days | | <input type="checkbox"/> | |
| 1406A93-005A | SG-5 | Soil Gas | ASTM D1946-90 (Helium) | 1 | 1L Summa | 6/26/2014 13:44 | 5 days | | <input type="checkbox"/> | |
| 1406A93-006A | SG-6 | Soil Gas | ASTM D1946-90 (Helium) | 1 | 1L Summa | 6/26/2014 15:05 | 5 days | | <input type="checkbox"/> | |

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

1L Summa = 1L Summa Canister



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mcccampbell.com / main@mcccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

1406A93

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 Day 2 Day 3 Day 5 DAY
GeoTracker EDF PDF EDD EQulS 10 DAY
UST Clean Up Fund Project Claim # Standard

Report To: Morgan Johnson Bill To:
Company: ENGEO
E-Mail: mjohnson@engeo.com
Tele: () Fax: ()
Project #: 7828.000.001 Project Name: Jordan Ranch
Project Location: Fallon Rd., Dublin, CA
Sampler Signature: [Signature]

Analysis Requested

Helium Shroud SN#

Other:

Notes: Please Specify units if different than defaults VOCs is ug/m3 and fixed gas is uL/L. Leak check default is IPA.

| Field Sample ID (Location) | Collection | | Canister SN# | Sampler Kit SN# | VOCs by TO-15 (ug/m3) | 8010 by TO-15 (ug/m3) | TPH(g) (ug/m3) | LEED (inc. 4PCH, Formaldehyde, CO, Total VOCs) | Fixed Gas: CO2, Methane, Ethane, Ethylene, Acetylene, CO (please circle or indicate in notes) uL/L | Fixed Gas: O2, N2 (please circle) uL/L | Fixed Gas: Propane uL/L | Helium Leak Check (%) <u>7/9/14</u> | Leak Check (IPA, Norflorane, 1,1-difluoroethane) ug/m3 | APH: Aliphatic and/or Aromatic (please circle) ug/m3 | Other: | Matrix | | Cannister Pressure/ Vacuum | |
|-------------------------------|------------|---------|--------------|-----------------|-----------------------|-----------------------|----------------|--|--|--|-------------------------|-------------------------------------|--|--|--------|---------|------------|----------------------------|-------|
| | Date | Time | | | | | | | | | | | | | | Soilgas | Indoor Air | Initial | Final |
| SG-1 | 6/26 | 9:27am | 7520-868 | | X | X | | X | X | X | X | X | | | | | | -30 | -6 |
| SG-2 | | 10:55am | 6201-742 | | X | X | | X | X | X | X | X | | | | | | -29 | -5 |
| SG-3 | | 11:59am | 7527-875 | | X | X | | X | X | X | X | X | | | | | | -30 | -6 |
| SG-4 | | 1:17pm | 5809-740 | | X | X | | X | X | X | X | X | | | | | | -30 | -5 |
| SG-5* | | 1:44pm | 6420-851 | | X | X | | X | X | X | X | X | | | | | | -29 | -5 |
| SG-6 | | 3:05pm | 7530-878 | | X | X | | X | X | X | X | X | | | | | | -30 | -5 |

Relinquished By: Matthew Miller Date: 6/26 Time: 4:41pm Received By: [Signature]
 Relinquished By: [Signature] Date: 6/27 Time: 3:50 Received By: [Signature]
 Relinquished By: [Signature] Date: 6/27/14 Time: 4:27/14 Received By: [Signature]

Temp (°C) : _____ Work Order #: _____
Condition: _____
Custody Seals Intact?: Yes _____ No _____ None _____
Shipped Via: _____

Rec. @ MAT 200 6/27/14
170
710

He LC added 7/9/14



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1406A93

Report Created for: ENGEO Incorporated
2010 Crow Canyon Place, Ste 250
San Ramon, CA 94583-4634

Project Contact: Morgan Johnson
Project P.O.:
Project Name: #7828.000.001; Jordan Ranch

Project Received: 06/30/2014

Analytical Report reviewed & approved for release on 07/09/2014 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
WorkOrder: 1406A93

Glossary Abbreviation

| | |
|--------------|---|
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| TEQ | Toxicity Equivalence |

Quality Control Qualifiers

F2 LCS recovery for this compound is outside of acceptance limits.



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/2/14-7/7/14

WorkOrder: 1406A93
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: uL/L

Light Gases

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-1 | 1406A93-001A | Soil Gas | 06/26/2014 09:27 | GC26 | 92348 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 13.03 | 26.07 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|--------|--------|-----|------------------|
| Carbon Dioxide | 94,000 | 10,000 | 100 | 07/07/2014 16:31 |
| Methane | 2.0 | 2.0 | 1 | 07/03/2014 14:04 |
| Oxygen | 91,000 | 4000 | 1 | 07/02/2014 15:51 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-2 | 1406A93-002A | Soil Gas | 06/26/2014 10:55 | GC26 | 92348 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 11.74 | 23.49 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|--------|--------|-----|------------------|
| Carbon Dioxide | 19,000 | 10,000 | 100 | 07/07/2014 17:06 |
| Methane | 5.1 | 2.0 | 1 | 07/03/2014 14:38 |
| Oxygen | 81,000 | 4000 | 1 | 07/02/2014 16:12 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-3 | 1406A93-003A | Soil Gas | 06/26/2014 11:59 | GC26 | 92348 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.64 | 25.27 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|---------|--------|-----|------------------|
| Carbon Dioxide | 25,000 | 10,000 | 100 | 07/07/2014 17:40 |
| Methane | ND | 2.0 | 1 | 07/03/2014 15:13 |
| Oxygen | 180,000 | 4000 | 1 | 07/02/2014 16:34 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/2/14-7/7/14

WorkOrder: 1406A93
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: uL/L

Light Gases

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-4 | 1406A93-004A | Soil Gas | 06/26/2014 13:17 | GC26 | 92348 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.49 | 24.97 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|---------|------|----|------------------|
| Carbon Dioxide | 8500 | 1000 | 10 | 07/07/2014 14:27 |
| Methane | ND | 2.0 | 1 | 07/03/2014 15:47 |
| Oxygen | 200,000 | 4000 | 1 | 07/02/2014 16:55 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-5 | 1406A93-005A | Soil Gas | 06/26/2014 13:44 | GC26 | 92348 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.22 | 24.46 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|---------|------|----|------------------|
| Carbon Dioxide | 9700 | 1000 | 10 | 07/07/2014 15:01 |
| Methane | ND | 2.0 | 1 | 07/03/2014 16:22 |
| Oxygen | 170,000 | 4000 | 1 | 07/02/2014 17:16 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-6 | 1406A93-006A | Soil Gas | 06/26/2014 15:05 | GC26 | 92348 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.88 | 25.73 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|---------|--------|-----|------------------|
| Carbon Dioxide | 27,000 | 10,000 | 100 | 07/07/2014 18:15 |
| Methane | ND | 2.0 | 1 | 07/03/2014 16:56 |
| Oxygen | 170,000 | 4000 | 1 | 07/02/2014 17:37 |



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-1 | 1406A93-001A | Soil Gas | 06/26/2014 09:27 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 13.03 | 26.07 |

| Analytes | Result | RL | DF | Date Analyzed |
|------------|---------|--------|----|------------------|
| TPH(g) | ND | 720 | 1 | 07/01/2014 05:39 |
| Surrogates | REC (%) | Limits | | |
| 1,2-DCA-d4 | 94 | 70-130 | | 07/01/2014 05:39 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-2 | 1406A93-002A | Soil Gas | 06/26/2014 10:55 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 11.74 | 23.49 |

| Analytes | Result | RL | DF | Date Analyzed |
|------------|---------|--------|----|------------------|
| TPH(g) | ND | 720 | 1 | 07/01/2014 06:19 |
| Surrogates | REC (%) | Limits | | |
| 1,2-DCA-d4 | 95 | 70-130 | | 07/01/2014 06:19 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-3 | 1406A93-003A | Soil Gas | 06/26/2014 11:59 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.64 | 25.27 |

| Analytes | Result | RL | DF | Date Analyzed |
|------------|---------|--------|----|------------------|
| TPH(g) | ND | 720 | 1 | 07/01/2014 07:00 |
| Surrogates | REC (%) | Limits | | |
| 1,2-DCA-d4 | 95 | 70-130 | | 07/01/2014 07:00 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-4 | 1406A93-004A | Soil Gas | 06/26/2014 13:17 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.49 | 24.97 |

| Analytes | Result | RL | DF | Date Analyzed |
|------------|---------|--------|----|------------------|
| TPH(g) | ND | 720 | 1 | 07/01/2014 07:40 |
| Surrogates | REC (%) | Limits | | |
| 1,2-DCA-d4 | 95 | 70-130 | | 07/01/2014 07:40 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-5 | 1406A93-005A | Soil Gas | 06/26/2014 13:44 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.22 | 24.46 |

| Analytes | Result | RL | DF | Date Analyzed |
|------------|---------|--------|----|------------------|
| TPH(g) | ND | 720 | 1 | 07/01/2014 08:20 |
| Surrogates | REC (%) | Limits | | |
| 1,2-DCA-d4 | 95 | 70-130 | | 07/01/2014 08:20 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-6 | 1406A93-006A | Soil Gas | 06/26/2014 15:05 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.88 | 25.73 |

| Analytes | Result | RL | DF | Date Analyzed |
|------------|---------|--------|----|------------------|
| TPH(g) | ND | 720 | 1 | 07/01/2014 09:01 |
| Surrogates | REC (%) | Limits | | |
| 1,2-DCA-d4 | 95 | 70-130 | | 07/01/2014 09:01 |



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Leak Check Compound

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-1 | 1406A93-001A | Soil Gas | 06/26/2014 09:27 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 13.03 | 26.07 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------|--------|----|----|------------------|
| Isopropyl Alcohol | ND | 50 | 1 | 07/01/2014 05:39 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-2 | 1406A93-002A | Soil Gas | 06/26/2014 10:55 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 11.74 | 23.49 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------|--------|----|----|------------------|
| Isopropyl Alcohol | ND | 50 | 1 | 07/01/2014 06:19 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-3 | 1406A93-003A | Soil Gas | 06/26/2014 11:59 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.64 | 25.27 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------|--------|----|----|------------------|
| Isopropyl Alcohol | ND | 50 | 1 | 07/01/2014 07:00 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Leak Check Compound

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-4 | 1406A93-004A | Soil Gas | 06/26/2014 13:17 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.49 | 24.97 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------|--------|----|----|------------------|
| Isopropyl Alcohol | ND | 50 | 1 | 07/01/2014 07:40 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-5 | 1406A93-005A | Soil Gas | 06/26/2014 13:44 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.22 | 24.46 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------|--------|----|----|------------------|
| Isopropyl Alcohol | ND | 50 | 1 | 07/01/2014 08:20 |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-6 | 1406A93-006A | Soil Gas | 06/26/2014 15:05 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.88 | 25.73 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------|--------|----|----|------------------|
| Isopropyl Alcohol | ND | 50 | 1 | 07/01/2014 09:01 |



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-1 | 1406A93-001A | Soil Gas | 06/26/2014 09:27 | GC24 | 92248 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 13.03 | 26.07 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| Acetone | ND | 60 | 1 | 07/01/2014 05:39 |
| Acrolein | ND | 1.2 | 1 | 07/01/2014 05:39 |
| Acrylonitrile | ND | 1.1 | 1 | 07/01/2014 05:39 |
| tert-Amyl methyl ether (TAME) | ND | 2.1 | 1 | 07/01/2014 05:39 |
| Benzene | ND | 1.6 | 1 | 07/01/2014 05:39 |
| Benzyl chloride | ND | 2.6 | 1 | 07/01/2014 05:39 |
| Bromodichloromethane | ND | 3.5 | 1 | 07/01/2014 05:39 |
| Bromoform | ND | 5.2 | 1 | 07/01/2014 05:39 |
| Bromomethane | ND | 2.0 | 1 | 07/01/2014 05:39 |
| 1,3-Butadiene | ND | 1.1 | 1 | 07/01/2014 05:39 |
| 2-Butanone (MEK) | ND | 75 | 1 | 07/01/2014 05:39 |
| t-Butyl alcohol (TBA) | ND | 31 | 1 | 07/01/2014 05:39 |
| Carbon Disulfide | ND | 1.6 | 1 | 07/01/2014 05:39 |
| Carbon Tetrachloride | ND | 3.2 | 1 | 07/01/2014 05:39 |
| Chlorobenzene | ND | 2.4 | 1 | 07/01/2014 05:39 |
| Chloroethane | ND | 1.3 | 1 | 07/01/2014 05:39 |
| Chloroform | ND | 2.4 | 1 | 07/01/2014 05:39 |
| Chloromethane | ND | 1.0 | 1 | 07/01/2014 05:39 |
| Cyclohexane | ND | 18 | 1 | 07/01/2014 05:39 |
| Dibromochloromethane | ND | 4.4 | 1 | 07/01/2014 05:39 |
| 1,2-Dibromo-3-chloropropane | ND | 0.12 | 1 | 07/01/2014 05:39 |
| 1,2-Dibromoethane (EDB) | ND | 3.9 | 1 | 07/01/2014 05:39 |
| 1,2-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 05:39 |
| 1,3-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 05:39 |
| 1,4-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 05:39 |
| Dichlorodifluoromethane | ND | 2.5 | 1 | 07/01/2014 05:39 |
| 1,1-Dichloroethane | ND | 2.0 | 1 | 07/01/2014 05:39 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 2.0 | 1 | 07/01/2014 05:39 |
| 1,1-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 05:39 |
| cis-1,2-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 05:39 |
| trans-1,2-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 05:39 |
| 1,2-Dichloropropane | ND | 2.4 | 1 | 07/01/2014 05:39 |
| cis-1,3-Dichloropropene | ND | 2.3 | 1 | 07/01/2014 05:39 |
| trans-1,3-Dichloropropene | ND | 2.3 | 1 | 07/01/2014 05:39 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-1 | 1406A93-001A | Soil Gas | 06/26/2014 09:27 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 13.03 | 26.07 |

| Analytes | Result | RL | DF | Date Analyzed |
|--|--------|-----|----|------------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 3.6 | 1 | 07/01/2014 05:39 |
| Diisopropyl ether (DIPE) | ND | 2.1 | 1 | 07/01/2014 05:39 |
| 1,4-Dioxane | ND | 1.8 | 1 | 07/01/2014 05:39 |
| Ethanol | ND | 96 | 1 | 07/01/2014 05:39 |
| Ethyl acetate | ND | 1.8 | 1 | 07/01/2014 05:39 |
| Ethyl tert-butyl ether (ETBE) | ND | 2.1 | 1 | 07/01/2014 05:39 |
| Ethylbenzene | ND | 2.2 | 1 | 07/01/2014 05:39 |
| 4-Ethyltoluene | ND | 2.5 | 1 | 07/01/2014 05:39 |
| Freon 113 | ND | 3.9 | 1 | 07/01/2014 05:39 |
| Heptane | ND | 21 | 1 | 07/01/2014 05:39 |
| Hexachlorobutadiene | ND | 5.4 | 1 | 07/01/2014 05:39 |
| Hexane | ND | 18 | 1 | 07/01/2014 05:39 |
| 2-Hexanone | ND | 2.1 | 1 | 07/01/2014 05:39 |
| 4-Methyl-2-pentanone (MIBK) | ND | 2.1 | 1 | 07/01/2014 05:39 |
| Methyl-t-butyl ether (MTBE) | ND | 1.8 | 1 | 07/01/2014 05:39 |
| Methylene chloride | ND | 1.8 | 1 | 07/01/2014 05:39 |
| Methyl methacrylate | ND | 2.1 | 1 | 07/01/2014 05:39 |
| Naphthalene | ND | 5.3 | 1 | 07/01/2014 05:39 |
| Propene | ND | 88 | 1 | 07/01/2014 05:39 |
| Styrene | ND | 2.2 | 1 | 07/01/2014 05:39 |
| 1,1,1,2-Tetrachloroethane | ND | 3.5 | 1 | 07/01/2014 05:39 |
| 1,1,2,2-Tetrachloroethane | ND | 3.5 | 1 | 07/01/2014 05:39 |
| Tetrachloroethene | ND | 3.4 | 1 | 07/01/2014 05:39 |
| Tetrahydrofuran | ND | 1.5 | 1 | 07/01/2014 05:39 |
| Toluene | ND | 1.9 | 1 | 07/01/2014 05:39 |
| 1,2,4-Trichlorobenzene | ND | 3.8 | 1 | 07/01/2014 05:39 |
| 1,1,1-Trichloroethane | ND | 2.8 | 1 | 07/01/2014 05:39 |
| 1,1,2-Trichloroethane | ND | 2.8 | 1 | 07/01/2014 05:39 |
| Trichloroethene | ND | 2.8 | 1 | 07/01/2014 05:39 |
| Trichlorofluoromethane | ND | 2.8 | 1 | 07/01/2014 05:39 |
| 1,2,4-Trimethylbenzene | ND | 2.5 | 1 | 07/01/2014 05:39 |
| 1,3,5-Trimethylbenzene | ND | 2.5 | 1 | 07/01/2014 05:39 |
| Vinyl Acetate | ND | 1.8 | 1 | 07/01/2014 05:39 |
| Vinyl Chloride | ND | 1.3 | 1 | 07/01/2014 05:39 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-1 | 1406A93-001A | Soil Gas | 06/26/2014 09:27 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 13.03 | 26.07 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|--------|-----|----|------------------|
| Xylenes, Total | ND | 6.6 | 1 | 07/01/2014 05:39 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| 1,2-DCA-d4 | 90 | 70-130 | 07/01/2014 05:39 |
| Toluene-d8 | 101 | 70-130 | 07/01/2014 05:39 |
| 4-BFB | 101 | 70-130 | 07/01/2014 05:39 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-2 | 1406A93-002A | Soil Gas | 06/26/2014 10:55 | GC24 | 92248 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 11.74 | 23.49 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| Acetone | ND | 60 | 1 | 07/01/2014 06:19 |
| Acrolein | ND | 1.2 | 1 | 07/01/2014 06:19 |
| Acrylonitrile | ND | 1.1 | 1 | 07/01/2014 06:19 |
| tert-Amyl methyl ether (TAME) | ND | 2.1 | 1 | 07/01/2014 06:19 |
| Benzene | ND | 1.6 | 1 | 07/01/2014 06:19 |
| Benzyl chloride | ND | 2.6 | 1 | 07/01/2014 06:19 |
| Bromodichloromethane | ND | 3.5 | 1 | 07/01/2014 06:19 |
| Bromoform | ND | 5.2 | 1 | 07/01/2014 06:19 |
| Bromomethane | ND | 2.0 | 1 | 07/01/2014 06:19 |
| 1,3-Butadiene | ND | 1.1 | 1 | 07/01/2014 06:19 |
| 2-Butanone (MEK) | ND | 75 | 1 | 07/01/2014 06:19 |
| t-Butyl alcohol (TBA) | ND | 31 | 1 | 07/01/2014 06:19 |
| Carbon Disulfide | ND | 1.6 | 1 | 07/01/2014 06:19 |
| Carbon Tetrachloride | ND | 3.2 | 1 | 07/01/2014 06:19 |
| Chlorobenzene | ND | 2.4 | 1 | 07/01/2014 06:19 |
| Chloroethane | ND | 1.3 | 1 | 07/01/2014 06:19 |
| Chloroform | ND | 2.4 | 1 | 07/01/2014 06:19 |
| Chloromethane | ND | 1.0 | 1 | 07/01/2014 06:19 |
| Cyclohexane | ND | 18 | 1 | 07/01/2014 06:19 |
| Dibromochloromethane | ND | 4.4 | 1 | 07/01/2014 06:19 |
| 1,2-Dibromo-3-chloropropane | ND | 0.12 | 1 | 07/01/2014 06:19 |
| 1,2-Dibromoethane (EDB) | ND | 3.9 | 1 | 07/01/2014 06:19 |
| 1,2-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 06:19 |
| 1,3-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 06:19 |
| 1,4-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 06:19 |
| Dichlorodifluoromethane | ND | 2.5 | 1 | 07/01/2014 06:19 |
| 1,1-Dichloroethane | ND | 2.0 | 1 | 07/01/2014 06:19 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 2.0 | 1 | 07/01/2014 06:19 |
| 1,1-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 06:19 |
| cis-1,2-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 06:19 |
| trans-1,2-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 06:19 |
| 1,2-Dichloropropane | ND | 2.4 | 1 | 07/01/2014 06:19 |
| cis-1,3-Dichloropropene | ND | 2.3 | 1 | 07/01/2014 06:19 |
| trans-1,3-Dichloropropene | ND | 2.3 | 1 | 07/01/2014 06:19 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-2 | 1406A93-002A | Soil Gas | 06/26/2014 10:55 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 11.74 | 23.49 |

| Analytes | Result | RL | DF | Date Analyzed |
|--|--------|-----|----|------------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 3.6 | 1 | 07/01/2014 06:19 |
| Diisopropyl ether (DIPE) | ND | 2.1 | 1 | 07/01/2014 06:19 |
| 1,4-Dioxane | ND | 1.8 | 1 | 07/01/2014 06:19 |
| Ethanol | ND | 96 | 1 | 07/01/2014 06:19 |
| Ethyl acetate | 1.9 | 1.8 | 1 | 07/01/2014 06:19 |
| Ethyl tert-butyl ether (ETBE) | ND | 2.1 | 1 | 07/01/2014 06:19 |
| Ethylbenzene | ND | 2.2 | 1 | 07/01/2014 06:19 |
| 4-Ethyltoluene | ND | 2.5 | 1 | 07/01/2014 06:19 |
| Freon 113 | ND | 3.9 | 1 | 07/01/2014 06:19 |
| Heptane | ND | 21 | 1 | 07/01/2014 06:19 |
| Hexachlorobutadiene | ND | 5.4 | 1 | 07/01/2014 06:19 |
| Hexane | ND | 18 | 1 | 07/01/2014 06:19 |
| 2-Hexanone | ND | 2.1 | 1 | 07/01/2014 06:19 |
| 4-Methyl-2-pentanone (MIBK) | ND | 2.1 | 1 | 07/01/2014 06:19 |
| Methyl-t-butyl ether (MTBE) | ND | 1.8 | 1 | 07/01/2014 06:19 |
| Methylene chloride | ND | 1.8 | 1 | 07/01/2014 06:19 |
| Methyl methacrylate | ND | 2.1 | 1 | 07/01/2014 06:19 |
| Naphthalene | ND | 5.3 | 1 | 07/01/2014 06:19 |
| Propene | ND | 88 | 1 | 07/01/2014 06:19 |
| Styrene | ND | 2.2 | 1 | 07/01/2014 06:19 |
| 1,1,1,2-Tetrachloroethane | ND | 3.5 | 1 | 07/01/2014 06:19 |
| 1,1,1,2-Tetrachloroethane | ND | 3.5 | 1 | 07/01/2014 06:19 |
| Tetrachloroethene | ND | 3.4 | 1 | 07/01/2014 06:19 |
| Tetrahydrofuran | ND | 1.5 | 1 | 07/01/2014 06:19 |
| Toluene | ND | 1.9 | 1 | 07/01/2014 06:19 |
| 1,2,4-Trichlorobenzene | ND | 3.8 | 1 | 07/01/2014 06:19 |
| 1,1,1-Trichloroethane | ND | 2.8 | 1 | 07/01/2014 06:19 |
| 1,1,2-Trichloroethane | ND | 2.8 | 1 | 07/01/2014 06:19 |
| Trichloroethene | ND | 2.8 | 1 | 07/01/2014 06:19 |
| Trichlorofluoromethane | ND | 2.8 | 1 | 07/01/2014 06:19 |
| 1,2,4-Trimethylbenzene | ND | 2.5 | 1 | 07/01/2014 06:19 |
| 1,3,5-Trimethylbenzene | ND | 2.5 | 1 | 07/01/2014 06:19 |
| Vinyl Acetate | ND | 1.8 | 1 | 07/01/2014 06:19 |
| Vinyl Chloride | ND | 1.3 | 1 | 07/01/2014 06:19 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-2 | 1406A93-002A | Soil Gas | 06/26/2014 10:55 | GC24 | 92248 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 11.74 | 23.49 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|--------|-----|----|------------------|
| Xylenes, Total | ND | 6.6 | 1 | 07/01/2014 06:19 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| 1,2-DCA-d4 | 91 | 70-130 | 07/01/2014 06:19 |
| Toluene-d8 | 101 | 70-130 | 07/01/2014 06:19 |
| 4-BFB | 100 | 70-130 | 07/01/2014 06:19 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-3 | 1406A93-003A | Soil Gas | 06/26/2014 11:59 | GC24 | 92248 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 12.64 | 25.27 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| Acetone | ND | 60 | 1 | 07/01/2014 07:00 |
| Acrolein | ND | 1.2 | 1 | 07/01/2014 07:00 |
| Acrylonitrile | ND | 1.1 | 1 | 07/01/2014 07:00 |
| tert-Amyl methyl ether (TAME) | ND | 2.1 | 1 | 07/01/2014 07:00 |
| Benzene | ND | 1.6 | 1 | 07/01/2014 07:00 |
| Benzyl chloride | ND | 2.6 | 1 | 07/01/2014 07:00 |
| Bromodichloromethane | ND | 3.5 | 1 | 07/01/2014 07:00 |
| Bromoform | ND | 5.2 | 1 | 07/01/2014 07:00 |
| Bromomethane | ND | 2.0 | 1 | 07/01/2014 07:00 |
| 1,3-Butadiene | ND | 1.1 | 1 | 07/01/2014 07:00 |
| 2-Butanone (MEK) | ND | 75 | 1 | 07/01/2014 07:00 |
| t-Butyl alcohol (TBA) | ND | 31 | 1 | 07/01/2014 07:00 |
| Carbon Disulfide | ND | 1.6 | 1 | 07/01/2014 07:00 |
| Carbon Tetrachloride | ND | 3.2 | 1 | 07/01/2014 07:00 |
| Chlorobenzene | ND | 2.4 | 1 | 07/01/2014 07:00 |
| Chloroethane | ND | 1.3 | 1 | 07/01/2014 07:00 |
| Chloroform | ND | 2.4 | 1 | 07/01/2014 07:00 |
| Chloromethane | ND | 1.0 | 1 | 07/01/2014 07:00 |
| Cyclohexane | ND | 18 | 1 | 07/01/2014 07:00 |
| Dibromochloromethane | ND | 4.4 | 1 | 07/01/2014 07:00 |
| 1,2-Dibromo-3-chloropropane | ND | 0.12 | 1 | 07/01/2014 07:00 |
| 1,2-Dibromoethane (EDB) | ND | 3.9 | 1 | 07/01/2014 07:00 |
| 1,2-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 07:00 |
| 1,3-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 07:00 |
| 1,4-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 07:00 |
| Dichlorodifluoromethane | ND | 2.5 | 1 | 07/01/2014 07:00 |
| 1,1-Dichloroethane | ND | 2.0 | 1 | 07/01/2014 07:00 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 2.0 | 1 | 07/01/2014 07:00 |
| 1,1-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 07:00 |
| cis-1,2-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 07:00 |
| trans-1,2-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 07:00 |
| 1,2-Dichloropropane | ND | 2.4 | 1 | 07/01/2014 07:00 |
| cis-1,3-Dichloropropene | ND | 2.3 | 1 | 07/01/2014 07:00 |
| trans-1,3-Dichloropropene | ND | 2.3 | 1 | 07/01/2014 07:00 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-3 | 1406A93-003A | Soil Gas | 06/26/2014 11:59 | GC24 | 92248 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 12.64 | 25.27 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|--|--------|-----|----|------------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 3.6 | 1 | 07/01/2014 07:00 |
| Diisopropyl ether (DIPE) | ND | 2.1 | 1 | 07/01/2014 07:00 |
| 1,4-Dioxane | ND | 1.8 | 1 | 07/01/2014 07:00 |
| Ethanol | ND | 96 | 1 | 07/01/2014 07:00 |
| Ethyl acetate | ND | 1.8 | 1 | 07/01/2014 07:00 |
| Ethyl tert-butyl ether (ETBE) | ND | 2.1 | 1 | 07/01/2014 07:00 |
| Ethylbenzene | ND | 2.2 | 1 | 07/01/2014 07:00 |
| 4-Ethyltoluene | ND | 2.5 | 1 | 07/01/2014 07:00 |
| Freon 113 | ND | 3.9 | 1 | 07/01/2014 07:00 |
| Heptane | ND | 21 | 1 | 07/01/2014 07:00 |
| Hexachlorobutadiene | ND | 5.4 | 1 | 07/01/2014 07:00 |
| Hexane | ND | 18 | 1 | 07/01/2014 07:00 |
| 2-Hexanone | ND | 2.1 | 1 | 07/01/2014 07:00 |
| 4-Methyl-2-pentanone (MIBK) | ND | 2.1 | 1 | 07/01/2014 07:00 |
| Methyl-t-butyl ether (MTBE) | ND | 1.8 | 1 | 07/01/2014 07:00 |
| Methylene chloride | ND | 1.8 | 1 | 07/01/2014 07:00 |
| Methyl methacrylate | ND | 2.1 | 1 | 07/01/2014 07:00 |
| Naphthalene | ND | 5.3 | 1 | 07/01/2014 07:00 |
| Propene | ND | 88 | 1 | 07/01/2014 07:00 |
| Styrene | ND | 2.2 | 1 | 07/01/2014 07:00 |
| 1,1,1,2-Tetrachloroethane | ND | 3.5 | 1 | 07/01/2014 07:00 |
| 1,1,1,2-Tetrachloroethane | ND | 3.5 | 1 | 07/01/2014 07:00 |
| Tetrachloroethene | ND | 3.4 | 1 | 07/01/2014 07:00 |
| Tetrahydrofuran | ND | 1.5 | 1 | 07/01/2014 07:00 |
| Toluene | ND | 1.9 | 1 | 07/01/2014 07:00 |
| 1,2,4-Trichlorobenzene | ND | 3.8 | 1 | 07/01/2014 07:00 |
| 1,1,1-Trichloroethane | ND | 2.8 | 1 | 07/01/2014 07:00 |
| 1,1,2-Trichloroethane | ND | 2.8 | 1 | 07/01/2014 07:00 |
| Trichloroethene | ND | 2.8 | 1 | 07/01/2014 07:00 |
| Trichlorofluoromethane | ND | 2.8 | 1 | 07/01/2014 07:00 |
| 1,2,4-Trimethylbenzene | ND | 2.5 | 1 | 07/01/2014 07:00 |
| 1,3,5-Trimethylbenzene | ND | 2.5 | 1 | 07/01/2014 07:00 |
| Vinyl Acetate | ND | 1.8 | 1 | 07/01/2014 07:00 |
| Vinyl Chloride | ND | 1.3 | 1 | 07/01/2014 07:00 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-3 | 1406A93-003A | Soil Gas | 06/26/2014 11:59 | GC24 | 92248 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 12.64 | 25.27 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|--------|-----|----|------------------|
| Xylenes, Total | ND | 6.6 | 1 | 07/01/2014 07:00 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| 1,2-DCA-d4 | 98 | 70-130 | 07/01/2014 07:00 |
| Toluene-d8 | 101 | 70-130 | 07/01/2014 07:00 |
| 4-BFB | 100 | 70-130 | 07/01/2014 07:00 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-4 | 1406A93-004A | Soil Gas | 06/26/2014 13:17 | GC24 | 92248 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 12.49 | 24.97 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| Acetone | ND | 60 | 1 | 07/01/2014 07:40 |
| Acrolein | ND | 1.2 | 1 | 07/01/2014 07:40 |
| Acrylonitrile | ND | 1.1 | 1 | 07/01/2014 07:40 |
| tert-Amyl methyl ether (TAME) | ND | 2.1 | 1 | 07/01/2014 07:40 |
| Benzene | ND | 1.6 | 1 | 07/01/2014 07:40 |
| Benzyl chloride | ND | 2.6 | 1 | 07/01/2014 07:40 |
| Bromodichloromethane | ND | 3.5 | 1 | 07/01/2014 07:40 |
| Bromoform | ND | 5.2 | 1 | 07/01/2014 07:40 |
| Bromomethane | ND | 2.0 | 1 | 07/01/2014 07:40 |
| 1,3-Butadiene | ND | 1.1 | 1 | 07/01/2014 07:40 |
| 2-Butanone (MEK) | ND | 75 | 1 | 07/01/2014 07:40 |
| t-Butyl alcohol (TBA) | ND | 31 | 1 | 07/01/2014 07:40 |
| Carbon Disulfide | ND | 1.6 | 1 | 07/01/2014 07:40 |
| Carbon Tetrachloride | ND | 3.2 | 1 | 07/01/2014 07:40 |
| Chlorobenzene | ND | 2.4 | 1 | 07/01/2014 07:40 |
| Chloroethane | ND | 1.3 | 1 | 07/01/2014 07:40 |
| Chloroform | ND | 2.4 | 1 | 07/01/2014 07:40 |
| Chloromethane | ND | 1.0 | 1 | 07/01/2014 07:40 |
| Cyclohexane | ND | 18 | 1 | 07/01/2014 07:40 |
| Dibromochloromethane | ND | 4.4 | 1 | 07/01/2014 07:40 |
| 1,2-Dibromo-3-chloropropane | ND | 0.12 | 1 | 07/01/2014 07:40 |
| 1,2-Dibromoethane (EDB) | ND | 3.9 | 1 | 07/01/2014 07:40 |
| 1,2-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 07:40 |
| 1,3-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 07:40 |
| 1,4-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 07:40 |
| Dichlorodifluoromethane | ND | 2.5 | 1 | 07/01/2014 07:40 |
| 1,1-Dichloroethane | ND | 2.0 | 1 | 07/01/2014 07:40 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 2.0 | 1 | 07/01/2014 07:40 |
| 1,1-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 07:40 |
| cis-1,2-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 07:40 |
| trans-1,2-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 07:40 |
| 1,2-Dichloropropane | ND | 2.4 | 1 | 07/01/2014 07:40 |
| cis-1,3-Dichloropropene | ND | 2.3 | 1 | 07/01/2014 07:40 |
| trans-1,3-Dichloropropene | ND | 2.3 | 1 | 07/01/2014 07:40 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-4 | 1406A93-004A | Soil Gas | 06/26/2014 13:17 | GC24 | 92248 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 12.49 | 24.97 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|--|------------|-----|----|------------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 3.6 | 1 | 07/01/2014 07:40 |
| Diisopropyl ether (DIPE) | ND | 2.1 | 1 | 07/01/2014 07:40 |
| 1,4-Dioxane | ND | 1.8 | 1 | 07/01/2014 07:40 |
| Ethanol | ND | 96 | 1 | 07/01/2014 07:40 |
| Ethyl acetate | ND | 1.8 | 1 | 07/01/2014 07:40 |
| Ethyl tert-butyl ether (ETBE) | ND | 2.1 | 1 | 07/01/2014 07:40 |
| Ethylbenzene | ND | 2.2 | 1 | 07/01/2014 07:40 |
| 4-Ethyltoluene | ND | 2.5 | 1 | 07/01/2014 07:40 |
| Freon 113 | ND | 3.9 | 1 | 07/01/2014 07:40 |
| Heptane | ND | 21 | 1 | 07/01/2014 07:40 |
| Hexachlorobutadiene | ND | 5.4 | 1 | 07/01/2014 07:40 |
| Hexane | ND | 18 | 1 | 07/01/2014 07:40 |
| 2-Hexanone | ND | 2.1 | 1 | 07/01/2014 07:40 |
| 4-Methyl-2-pentanone (MIBK) | ND | 2.1 | 1 | 07/01/2014 07:40 |
| Methyl-t-butyl ether (MTBE) | ND | 1.8 | 1 | 07/01/2014 07:40 |
| Methylene chloride | 2.2 | 1.8 | 1 | 07/01/2014 07:40 |
| Methyl methacrylate | ND | 2.1 | 1 | 07/01/2014 07:40 |
| Naphthalene | ND | 5.3 | 1 | 07/01/2014 07:40 |
| Propene | ND | 88 | 1 | 07/01/2014 07:40 |
| Styrene | ND | 2.2 | 1 | 07/01/2014 07:40 |
| 1,1,1,2-Tetrachloroethane | ND | 3.5 | 1 | 07/01/2014 07:40 |
| 1,1,2,2-Tetrachloroethane | ND | 3.5 | 1 | 07/01/2014 07:40 |
| Tetrachloroethene | ND | 3.4 | 1 | 07/01/2014 07:40 |
| Tetrahydrofuran | ND | 1.5 | 1 | 07/01/2014 07:40 |
| Toluene | ND | 1.9 | 1 | 07/01/2014 07:40 |
| 1,2,4-Trichlorobenzene | ND | 3.8 | 1 | 07/01/2014 07:40 |
| 1,1,1-Trichloroethane | ND | 2.8 | 1 | 07/01/2014 07:40 |
| 1,1,2-Trichloroethane | ND | 2.8 | 1 | 07/01/2014 07:40 |
| Trichloroethene | ND | 2.8 | 1 | 07/01/2014 07:40 |
| Trichlorofluoromethane | ND | 2.8 | 1 | 07/01/2014 07:40 |
| 1,2,4-Trimethylbenzene | ND | 2.5 | 1 | 07/01/2014 07:40 |
| 1,3,5-Trimethylbenzene | ND | 2.5 | 1 | 07/01/2014 07:40 |
| Vinyl Acetate | ND | 1.8 | 1 | 07/01/2014 07:40 |
| Vinyl Chloride | ND | 1.3 | 1 | 07/01/2014 07:40 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-4 | 1406A93-004A | Soil Gas | 06/26/2014 13:17 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.49 | 24.97 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|--------|-----|----|------------------|
| Xylenes, Total | ND | 6.6 | 1 | 07/01/2014 07:40 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| 1,2-DCA-d4 | 91 | 70-130 | 07/01/2014 07:40 |
| Toluene-d8 | 101 | 70-130 | 07/01/2014 07:40 |
| 4-BFB | 100 | 70-130 | 07/01/2014 07:40 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-5 | 1406A93-005A | Soil Gas | 06/26/2014 13:44 | GC24 | 92248 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 12.22 | 24.46 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| Acetone | ND | 60 | 1 | 07/01/2014 08:20 |
| Acrolein | ND | 1.2 | 1 | 07/01/2014 08:20 |
| Acrylonitrile | ND | 1.1 | 1 | 07/01/2014 08:20 |
| tert-Amyl methyl ether (TAME) | ND | 2.1 | 1 | 07/01/2014 08:20 |
| Benzene | ND | 1.6 | 1 | 07/01/2014 08:20 |
| Benzyl chloride | ND | 2.6 | 1 | 07/01/2014 08:20 |
| Bromodichloromethane | ND | 3.5 | 1 | 07/01/2014 08:20 |
| Bromoform | ND | 5.2 | 1 | 07/01/2014 08:20 |
| Bromomethane | ND | 2.0 | 1 | 07/01/2014 08:20 |
| 1,3-Butadiene | ND | 1.1 | 1 | 07/01/2014 08:20 |
| 2-Butanone (MEK) | ND | 75 | 1 | 07/01/2014 08:20 |
| t-Butyl alcohol (TBA) | ND | 31 | 1 | 07/01/2014 08:20 |
| Carbon Disulfide | ND | 1.6 | 1 | 07/01/2014 08:20 |
| Carbon Tetrachloride | ND | 3.2 | 1 | 07/01/2014 08:20 |
| Chlorobenzene | ND | 2.4 | 1 | 07/01/2014 08:20 |
| Chloroethane | ND | 1.3 | 1 | 07/01/2014 08:20 |
| Chloroform | ND | 2.4 | 1 | 07/01/2014 08:20 |
| Chloromethane | ND | 1.0 | 1 | 07/01/2014 08:20 |
| Cyclohexane | ND | 18 | 1 | 07/01/2014 08:20 |
| Dibromochloromethane | ND | 4.4 | 1 | 07/01/2014 08:20 |
| 1,2-Dibromo-3-chloropropane | ND | 0.12 | 1 | 07/01/2014 08:20 |
| 1,2-Dibromoethane (EDB) | ND | 3.9 | 1 | 07/01/2014 08:20 |
| 1,2-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 08:20 |
| 1,3-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 08:20 |
| 1,4-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 08:20 |
| Dichlorodifluoromethane | ND | 2.5 | 1 | 07/01/2014 08:20 |
| 1,1-Dichloroethane | ND | 2.0 | 1 | 07/01/2014 08:20 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 2.0 | 1 | 07/01/2014 08:20 |
| 1,1-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 08:20 |
| cis-1,2-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 08:20 |
| trans-1,2-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 08:20 |
| 1,2-Dichloropropane | ND | 2.4 | 1 | 07/01/2014 08:20 |
| cis-1,3-Dichloropropene | ND | 2.3 | 1 | 07/01/2014 08:20 |
| trans-1,3-Dichloropropene | ND | 2.3 | 1 | 07/01/2014 08:20 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-5 | 1406A93-005A | Soil Gas | 06/26/2014 13:44 | GC24 | 92248 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 12.22 | 24.46 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|--|--------|-----|----|------------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 3.6 | 1 | 07/01/2014 08:20 |
| Diisopropyl ether (DIPE) | ND | 2.1 | 1 | 07/01/2014 08:20 |
| 1,4-Dioxane | ND | 1.8 | 1 | 07/01/2014 08:20 |
| Ethanol | ND | 96 | 1 | 07/01/2014 08:20 |
| Ethyl acetate | ND | 1.8 | 1 | 07/01/2014 08:20 |
| Ethyl tert-butyl ether (ETBE) | ND | 2.1 | 1 | 07/01/2014 08:20 |
| Ethylbenzene | ND | 2.2 | 1 | 07/01/2014 08:20 |
| 4-Ethyltoluene | ND | 2.5 | 1 | 07/01/2014 08:20 |
| Freon 113 | ND | 3.9 | 1 | 07/01/2014 08:20 |
| Heptane | ND | 21 | 1 | 07/01/2014 08:20 |
| Hexachlorobutadiene | ND | 5.4 | 1 | 07/01/2014 08:20 |
| Hexane | ND | 18 | 1 | 07/01/2014 08:20 |
| 2-Hexanone | ND | 2.1 | 1 | 07/01/2014 08:20 |
| 4-Methyl-2-pentanone (MIBK) | ND | 2.1 | 1 | 07/01/2014 08:20 |
| Methyl-t-butyl ether (MTBE) | ND | 1.8 | 1 | 07/01/2014 08:20 |
| Methylene chloride | ND | 1.8 | 1 | 07/01/2014 08:20 |
| Methyl methacrylate | ND | 2.1 | 1 | 07/01/2014 08:20 |
| Naphthalene | ND | 5.3 | 1 | 07/01/2014 08:20 |
| Propene | ND | 88 | 1 | 07/01/2014 08:20 |
| Styrene | ND | 2.2 | 1 | 07/01/2014 08:20 |
| 1,1,1,2-Tetrachloroethane | ND | 3.5 | 1 | 07/01/2014 08:20 |
| 1,1,2,2-Tetrachloroethane | ND | 3.5 | 1 | 07/01/2014 08:20 |
| Tetrachloroethene | 3.8 | 3.4 | 1 | 07/01/2014 08:20 |
| Tetrahydrofuran | ND | 1.5 | 1 | 07/01/2014 08:20 |
| Toluene | ND | 1.9 | 1 | 07/01/2014 08:20 |
| 1,2,4-Trichlorobenzene | ND | 3.8 | 1 | 07/01/2014 08:20 |
| 1,1,1-Trichloroethane | ND | 2.8 | 1 | 07/01/2014 08:20 |
| 1,1,2-Trichloroethane | ND | 2.8 | 1 | 07/01/2014 08:20 |
| Trichloroethene | ND | 2.8 | 1 | 07/01/2014 08:20 |
| Trichlorofluoromethane | ND | 2.8 | 1 | 07/01/2014 08:20 |
| 1,2,4-Trimethylbenzene | ND | 2.5 | 1 | 07/01/2014 08:20 |
| 1,3,5-Trimethylbenzene | ND | 2.5 | 1 | 07/01/2014 08:20 |
| Vinyl Acetate | ND | 1.8 | 1 | 07/01/2014 08:20 |
| Vinyl Chloride | ND | 1.3 | 1 | 07/01/2014 08:20 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-5 | 1406A93-005A | Soil Gas | 06/26/2014 13:44 | GC24 | 92248 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 12.22 | 24.46 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|--------|-----|----|------------------|
| Xylenes, Total | ND | 6.6 | 1 | 07/01/2014 08:20 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| 1,2-DCA-d4 | 91 | 70-130 | 07/01/2014 08:20 |
| Toluene-d8 | 101 | 70-130 | 07/01/2014 08:20 |
| 4-BFB | 99 | 70-130 | 07/01/2014 08:20 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-6 | 1406A93-006A | Soil Gas | 06/26/2014 15:05 | GC24 | 92248 |

Initial Pressure (psia) **Final Pressure (psia)**

| | |
|-------|-------|
| 12.88 | 25.73 |
|-------|-------|

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|------------|------|----|------------------|
| Acetone | ND | 60 | 1 | 07/01/2014 09:01 |
| Acrolein | ND | 1.2 | 1 | 07/01/2014 09:01 |
| Acrylonitrile | ND | 1.1 | 1 | 07/01/2014 09:01 |
| tert-Amyl methyl ether (TAME) | ND | 2.1 | 1 | 07/01/2014 09:01 |
| Benzene | ND | 1.6 | 1 | 07/01/2014 09:01 |
| Benzyl chloride | ND | 2.6 | 1 | 07/01/2014 09:01 |
| Bromodichloromethane | ND | 3.5 | 1 | 07/01/2014 09:01 |
| Bromoform | ND | 5.2 | 1 | 07/01/2014 09:01 |
| Bromomethane | ND | 2.0 | 1 | 07/01/2014 09:01 |
| 1,3-Butadiene | ND | 1.1 | 1 | 07/01/2014 09:01 |
| 2-Butanone (MEK) | ND | 75 | 1 | 07/01/2014 09:01 |
| t-Butyl alcohol (TBA) | ND | 31 | 1 | 07/01/2014 09:01 |
| Carbon Disulfide | 5.9 | 1.6 | 1 | 07/01/2014 09:01 |
| Carbon Tetrachloride | ND | 3.2 | 1 | 07/01/2014 09:01 |
| Chlorobenzene | ND | 2.4 | 1 | 07/01/2014 09:01 |
| Chloroethane | ND | 1.3 | 1 | 07/01/2014 09:01 |
| Chloroform | ND | 2.4 | 1 | 07/01/2014 09:01 |
| Chloromethane | ND | 1.0 | 1 | 07/01/2014 09:01 |
| Cyclohexane | ND | 18 | 1 | 07/01/2014 09:01 |
| Dibromochloromethane | ND | 4.4 | 1 | 07/01/2014 09:01 |
| 1,2-Dibromo-3-chloropropane | ND | 0.12 | 1 | 07/01/2014 09:01 |
| 1,2-Dibromoethane (EDB) | ND | 3.9 | 1 | 07/01/2014 09:01 |
| 1,2-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 09:01 |
| 1,3-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 09:01 |
| 1,4-Dichlorobenzene | ND | 3.0 | 1 | 07/01/2014 09:01 |
| Dichlorodifluoromethane | ND | 2.5 | 1 | 07/01/2014 09:01 |
| 1,1-Dichloroethane | ND | 2.0 | 1 | 07/01/2014 09:01 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 2.0 | 1 | 07/01/2014 09:01 |
| 1,1-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 09:01 |
| cis-1,2-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 09:01 |
| trans-1,2-Dichloroethene | ND | 2.0 | 1 | 07/01/2014 09:01 |
| 1,2-Dichloropropane | ND | 2.4 | 1 | 07/01/2014 09:01 |
| cis-1,3-Dichloropropene | ND | 2.3 | 1 | 07/01/2014 09:01 |
| trans-1,3-Dichloropropene | ND | 2.3 | 1 | 07/01/2014 09:01 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-6 | 1406A93-006A | Soil Gas | 06/26/2014 15:05 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.88 | 25.73 |

| Analytes | Result | RL | DF | Date Analyzed |
|--|------------|-----|----|------------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 3.6 | 1 | 07/01/2014 09:01 |
| Diisopropyl ether (DIPE) | ND | 2.1 | 1 | 07/01/2014 09:01 |
| 1,4-Dioxane | ND | 1.8 | 1 | 07/01/2014 09:01 |
| Ethanol | ND | 96 | 1 | 07/01/2014 09:01 |
| Ethyl acetate | ND | 1.8 | 1 | 07/01/2014 09:01 |
| Ethyl tert-butyl ether (ETBE) | ND | 2.1 | 1 | 07/01/2014 09:01 |
| Ethylbenzene | ND | 2.2 | 1 | 07/01/2014 09:01 |
| 4-Ethyltoluene | ND | 2.5 | 1 | 07/01/2014 09:01 |
| Freon 113 | ND | 3.9 | 1 | 07/01/2014 09:01 |
| Heptane | ND | 21 | 1 | 07/01/2014 09:01 |
| Hexachlorobutadiene | ND | 5.4 | 1 | 07/01/2014 09:01 |
| Hexane | ND | 18 | 1 | 07/01/2014 09:01 |
| 2-Hexanone | ND | 2.1 | 1 | 07/01/2014 09:01 |
| 4-Methyl-2-pentanone (MIBK) | ND | 2.1 | 1 | 07/01/2014 09:01 |
| Methyl-t-butyl ether (MTBE) | ND | 1.8 | 1 | 07/01/2014 09:01 |
| Methylene chloride | ND | 1.8 | 1 | 07/01/2014 09:01 |
| Methyl methacrylate | ND | 2.1 | 1 | 07/01/2014 09:01 |
| Naphthalene | ND | 5.3 | 1 | 07/01/2014 09:01 |
| Propene | ND | 88 | 1 | 07/01/2014 09:01 |
| Styrene | ND | 2.2 | 1 | 07/01/2014 09:01 |
| 1,1,1,2-Tetrachloroethane | ND | 3.5 | 1 | 07/01/2014 09:01 |
| 1,1,2,2-Tetrachloroethane | ND | 3.5 | 1 | 07/01/2014 09:01 |
| Tetrachloroethene | 8.6 | 3.4 | 1 | 07/01/2014 09:01 |
| Tetrahydrofuran | ND | 1.5 | 1 | 07/01/2014 09:01 |
| Toluene | ND | 1.9 | 1 | 07/01/2014 09:01 |
| 1,2,4-Trichlorobenzene | ND | 3.8 | 1 | 07/01/2014 09:01 |
| 1,1,1-Trichloroethane | ND | 2.8 | 1 | 07/01/2014 09:01 |
| 1,1,2-Trichloroethane | ND | 2.8 | 1 | 07/01/2014 09:01 |
| Trichloroethene | ND | 2.8 | 1 | 07/01/2014 09:01 |
| Trichlorofluoromethane | ND | 2.8 | 1 | 07/01/2014 09:01 |
| 1,2,4-Trimethylbenzene | ND | 2.5 | 1 | 07/01/2014 09:01 |
| 1,3,5-Trimethylbenzene | ND | 2.5 | 1 | 07/01/2014 09:01 |
| Vinyl Acetate | ND | 1.8 | 1 | 07/01/2014 09:01 |
| Vinyl Chloride | ND | 1.3 | 1 | 07/01/2014 09:01 |

(Cont.)



Analytical Report

Client: ENGEO Incorporated
Project: #7828.000.001; Jordan Ranch
Date Received: 6/30/14 10:57
Date Prepared: 7/1/14

WorkOrder: 1406A93
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SG-6 | 1406A93-006A | Soil Gas | 06/26/2014 15:05 | GC24 | 92248 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 12.88 | 25.73 |

| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
|-----------------|---------------|-----------|-----------|----------------------|
| Xylenes, Total | ND | 6.6 | 1 | 07/01/2014 09:01 |

| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>Date Analyzed</u> |
|-------------------|----------------|---------------|----------------------|
| 1,2-DCA-d4 | 91 | 70-130 | 07/01/2014 09:01 |
| Toluene-d8 | 101 | 70-130 | 07/01/2014 09:01 |
| 4-BFB | 100 | 70-130 | 07/01/2014 09:01 |



Quality Control Report

Client: ENGEO Incorporated
Date Prepared: 7/3/14
Date Analyzed: 7/2/14 - 7/3/14
Instrument: GC26
Matrix: Soil Gas
Project: #7828.000.001; Jordan Ranch

WorkOrder: 1406A93
BatchID: 92348
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: uL/L
Sample ID: MB/LCS-92348

QC Summary Report for ASTM D1946-90

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|----------------|-----------|------------|------|---------|------------|----------|------------|
| Carbon Dioxide | ND | 951 | 50 | 1000 | - | 95.1 | 70-130 |
| Methane | ND | 119 | 2.0 | 100 | - | 119 | 70-130 |
| Oxygen | ND | 6260 | 4000 | 7000 | - | 89.5 | 70-130 |



Quality Control Report

Client: ENGEO Incorporated
Date Prepared: 7/1/14
Date Analyzed: 6/30/14
Instrument: GC24
Matrix: Soilgas
Project: #7828.000.001; Jordan Ranch

WorkOrder: 1406A93
BatchID: 92248
Extraction Method: TO15
Analytical Method: TO15
Unit: nL/L
Sample ID: MB/LCS-92248

QC Summary Report for TO15

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|--|-----------|------------|-------|---------|------------|----------|------------|
| Acetone | ND | - | 25 | - | - | - | - |
| Acrolein | ND | 30.2 | 0.50 | 25 | - | 121 | 60-140 |
| Acrylonitrile | ND | 21.6 | 0.50 | 25 | - | 86.3 | 60-140 |
| tert-Amyl methyl ether (TAME) | ND | 23.8 | 0.50 | 25 | - | 95.2 | 60-140 |
| Benzene | ND | 20.0 | 0.50 | 25 | - | 79.9 | 60-140 |
| Benzyl chloride | ND | 26.8 | 0.50 | 25 | - | 107 | 60-140 |
| Bromodichloromethane | ND | 21.9 | 0.50 | 25 | - | 87.5 | 60-140 |
| Bromoform | ND | 36.1 | 0.50 | 25 | - | 144, F2 | 60-140 |
| Bromomethane | ND | - | 0.50 | - | - | - | - |
| 1,3-Butadiene | ND | - | 0.50 | - | - | - | - |
| 2-Butanone (MEK) | ND | - | 25 | - | - | - | - |
| t-Butyl alcohol (TBA) | ND | 18.7 | 10 | 25 | - | 74.9 | 60-140 |
| Carbon Disulfide | ND | 20.5 | 0.50 | 25 | - | 82 | 60-140 |
| Carbon Tetrachloride | ND | 22.1 | 0.50 | 25 | - | 88.6 | 60-140 |
| Chlorobenzene | ND | 20.3 | 0.50 | 25 | - | 81.3 | 60-140 |
| Chloroethane | ND | 20.1 | 0.50 | 25 | - | 80.3 | 60-140 |
| Chloroform | ND | 16.4 | 0.50 | 25 | - | 65.4 | 60-140 |
| Chloromethane | ND | 19.5 | 0.50 | 25 | - | 77.9 | 60-140 |
| Cyclohexane | ND | - | 5.0 | - | - | - | - |
| Dibromochloromethane | ND | 25.1 | 0.50 | 25 | - | 100 | 60-140 |
| 1,2-Dibromo-3-chloropropane | ND | 31.9 | 0.012 | 25 | - | 128 | 60-140 |
| 1,2-Dibromoethane (EDB) | ND | 19.9 | 0.50 | 25 | - | 79.6 | 60-140 |
| 1,2-Dichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,3-Dichlorobenzene | ND | 20.6 | 0.50 | 25 | - | 82.4 | 60-140 |
| 1,4-Dichlorobenzene | ND | 19.4 | 0.50 | 25 | - | 77.8 | 60-140 |
| Dichlorodifluoromethane | ND | 19.1 | 0.50 | 25 | - | 76.4 | 60-140 |
| 1,1-Dichloroethane | ND | 20.6 | 0.50 | 25 | - | 82.5 | 60-140 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 19.1 | 0.50 | 25 | - | 76.5 | 60-140 |
| 1,1-Dichloroethene | ND | - | 0.50 | - | - | - | - |
| cis-1,2-Dichloroethene | ND | 19.9 | 0.50 | 25 | - | 79.5 | 60-140 |
| trans-1,2-Dichloroethene | ND | 19.5 | 0.50 | 25 | - | 78 | 60-140 |
| 1,2-Dichloropropane | ND | 21.4 | 0.50 | 25 | - | 85.4 | 60-140 |
| cis-1,3-Dichloropropene | ND | 23.0 | 0.50 | 25 | - | 91.9 | 60-140 |
| trans-1,3-Dichloropropene | ND | 22.2 | 0.50 | 25 | - | 88.6 | 60-140 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 18.7 | 0.50 | 25 | - | 74.7 | 60-140 |
| Diisopropyl ether (DIPE) | ND | 19.9 | 0.50 | 25 | - | 79.4 | 60-140 |
| 1,4-Dioxane | ND | 21.9 | 0.50 | 25 | - | 87.8 | 60-140 |
| Ethanol | ND | - | 50 | - | - | - | - |
| Ethyl acetate | ND | 20.2 | 0.50 | 25 | - | 80.7 | 60-140 |
| Ethyl tert-butyl ether (ETBE) | ND | 20.9 | 0.50 | 25 | - | 83.5 | 60-140 |

(Cont.)



Quality Control Report

Client: ENGEO Incorporated
Date Prepared: 7/1/14
Date Analyzed: 6/30/14
Instrument: GC24
Matrix: Soilgas
Project: #7828.000.001; Jordan Ranch

WorkOrder: 1406A93
BatchID: 92248
Extraction Method: TO15
Analytical Method: TO15
Unit: nL/L
Sample ID: MB/LCS-92248

QC Summary Report for TO15

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-----------------------------|-----------|------------|------|---------|------------|----------|------------|
| Ethylbenzene | ND | 21.1 | 0.50 | 25 | - | 84.5 | 60-140 |
| 4-Ethyltoluene | ND | - | 0.50 | - | - | - | - |
| Freon 113 | ND | 18.1 | 0.50 | 25 | - | 72.2 | 60-140 |
| Heptane | ND | - | 5.0 | - | - | - | - |
| Hexachlorobutadiene | ND | 18.2 | 0.50 | 25 | - | 72.6 | 60-140 |
| Hexane | ND | - | 5.0 | - | - | - | - |
| 2-Hexanone | ND | - | 0.50 | - | - | - | - |
| 4-Methyl-2-pentanone (MIBK) | ND | 25.4 | 0.50 | 25 | - | 102 | 60-140 |
| Methyl-t-butyl ether (MTBE) | ND | 21.1 | 0.50 | 25 | - | 84.4 | 60-140 |
| Methylene chloride | ND | 17.4 | 0.50 | 25 | - | 69.6 | 60-140 |
| Methyl methacrylate | ND | 24.9 | 0.50 | 25 | - | 99.7 | 60-140 |
| Naphthalene | ND | 48.5 | 1.0 | 50 | - | 97.1 | 60-140 |
| Propene | ND | - | 50 | - | - | - | - |
| Styrene | ND | 23.4 | 0.50 | 25 | - | 93.7 | 60-140 |
| 1,1,1,2-Tetrachloroethane | ND | 21.2 | 0.50 | 25 | - | 84.8 | 60-140 |
| 1,1,2,2-Tetrachloroethane | ND | 19.2 | 0.50 | 25 | - | 76.7 | 60-140 |
| Tetrachloroethene | ND | 20.9 | 0.50 | 25 | - | 83.7 | 60-140 |
| Tetrahydrofuran | ND | 17.6 | 0.50 | 25 | - | 70.4 | 60-140 |
| Toluene | ND | 20.6 | 0.50 | 25 | - | 82.5 | 60-140 |
| 1,2,4-Trichlorobenzene | ND | 21.5 | 0.50 | 25 | - | 86.1 | 60-140 |
| 1,1,1-Trichloroethane | ND | 23.5 | 0.50 | 25 | - | 93.9 | 60-140 |
| 1,1,2-Trichloroethane | ND | 17.5 | 0.50 | 25 | - | 70 | 60-140 |
| Trichloroethene | ND | 19.4 | 0.50 | 25 | - | 77.5 | 60-140 |
| Trichlorofluoromethane | ND | - | 0.50 | - | - | - | - |
| 1,2,4-Trimethylbenzene | ND | 19.6 | 0.50 | 25 | - | 78.4 | 60-140 |
| 1,3,5-Trimethylbenzene | ND | 19.0 | 0.50 | 25 | - | 75.8 | 60-140 |
| Vinyl Acetate | ND | - | 0.50 | - | - | - | - |
| Vinyl Chloride | ND | 20.2 | 0.50 | 25 | - | 80.7 | 60-140 |
| Xylenes, Total | ND | 59.3 | 1.5 | 75 | - | 79 | 60-140 |

Surrogate Recovery

| | | | | | | | |
|------------|-----|-----|--|-----|-----|-----|--------|
| 1,2-DCA-d4 | 470 | 572 | | 500 | 94 | 114 | 60-140 |
| Toluene-d8 | 508 | 512 | | 500 | 102 | 102 | 60-140 |
| 4-BFB | 508 | 525 | | 500 | 102 | 105 | 60-140 |

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1406A93

ClientCode: ENGE

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Morgan Johnson
 ENGEO Incorporated
 2010 Crow Canyon Place, Ste 250
 San Ramon, CA 94583-4634
 (916) 580-6518 FAX: (925) 866-0199

Email: mjohnson@engeo.com
 cc/3rd Party:
 PO:
 ProjectNo: #7828.000.001; Jordan Ranch

Bill to:
 Chantelle
 ENGEO Incorporated
 2010 Crow Canyon Place, Ste 250
 San Ramon, CA 94583-4634
 AP@engeo.com

Requested TAT: 5 days

Date Received: 06/30/2014
Date Printed: 06/30/2014

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | |
|-------------|--------------|----------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1406A93-001 | SG-1 | Soil Gas | 6/26/2014 9:27 | <input type="checkbox"/> | A | | A | | | | | | | | | | |
| 1406A93-002 | SG-2 | Soil Gas | 6/26/2014 10:55 | <input type="checkbox"/> | A | | A | | | | | | | | | | |
| 1406A93-003 | SG-3 | Soil Gas | 6/26/2014 11:59 | <input type="checkbox"/> | A | | A | | | | | | | | | | |
| 1406A93-004 | SG-4 | Soil Gas | 6/26/2014 13:17 | <input type="checkbox"/> | A | | A | | | | | | | | | | |
| 1406A93-005 | SG-5 | Soil Gas | 6/26/2014 13:44 | <input type="checkbox"/> | A | | A | | | | | | | | | | |
| 1406A93-006 | SG-6 | Soil Gas | 6/26/2014 15:05 | <input type="checkbox"/> | A | | A | | | | | | | | | | |
| 1406A93-007 | Unused Summa | Soil Gas | 6/26/2014 | <input type="checkbox"/> | | A | | | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|------------------|----|--------------|---|-------------------------|---|--|----|--|
| 1 | LG_SUMMA_SOILGAS | 2 | PRNUSEDSUMMA | 3 | O15_Scan-SIM_SOIL(UG/M) | 4 | | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

The following SamplIDs: 001A, 002A, 003A, 004A, 005A, 006A contain testgroup.

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: ENGEO INCORPORATED

QC Level: LEVEL 2

Work Order: 1406A93

Project: #7828.000.001; Jordan Ranch

Client Contact: Morgan Johnson

Date Received: 6/30/2014

Comments:

Contact's Email: mjohanson@engeo.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Number of Containers | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|----------|--|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1406A93-001A | SG-1 | Soil Gas | VOCs and TPHgas by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Carbon Dioxide_2, Methane_4, Oxygen> | 1 | 1L Summa | <input type="checkbox"/> | 6/26/2014 9:27 | 5 days | | <input type="checkbox"/> | |
| 1406A93-002A | SG-2 | Soil Gas | VOCs and TPHgas by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Carbon Dioxide_2, Methane_4, Oxygen> | 1 | 1L Summa | <input type="checkbox"/> | 6/26/2014 10:55 | 5 days | | <input type="checkbox"/> | |
| 1406A93-003A | SG-3 | Soil Gas | VOCs and TPHgas by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Carbon Dioxide_2, Methane_4, Oxygen> | 1 | 1L Summa | <input type="checkbox"/> | 6/26/2014 11:59 | 5 days | | <input type="checkbox"/> | |
| 1406A93-004A | SG-4 | Soil Gas | VOCs and TPHgas by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Carbon Dioxide_2, Methane_4, Oxygen> | 1 | 1L Summa | <input type="checkbox"/> | 6/26/2014 13:17 | 5 days | | <input type="checkbox"/> | |
| 1406A93-005A | SG-5 | Soil Gas | VOCs and TPHgas by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Carbon Dioxide_2, Methane_4, Oxygen> | 1 | 1L Summa | <input type="checkbox"/> | 6/26/2014 13:44 | 5 days | | <input type="checkbox"/> | |

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

1L Summa = 1L Summa Canister



WORK ORDER SUMMARY

Client Name: ENGEO INCORPORATED

QC Level: LEVEL 2

Work Order: 1406A93

Project: #7828.000.001; Jordan Ranch

Client Contact: Morgan Johnson

Date Received: 6/30/2014

Comments:

Contact's Email: mjohnson@engeo.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Number of Containers | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|----------|--|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1406A93-006A | SG-6 | Soil Gas | VOCs and TPHgas by TO15 for Soil Vapor | 1 | 1L Summa | <input type="checkbox"/> | 6/26/2014 15:05 | 5 days | | <input type="checkbox"/> | |
| | | | ASTM D1946-90 (Light Gases) <Carbon Dioxide_2, Methane_4, Oxygen> | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

1L Summa = 1L Summa Canister



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mcccampbell.com / main@mcccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

1406A93

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 Day 2 Day 3 Day 5 DAY
GeoTracker EDF PDF EDD EQuIS 10 DAY
UST Clean Up Fund Project Claim # Standard

Report To: Morgan Johnson Bill To:
Company: ENGEO
E-Mail: mjohnson@engco.com
Tele: () Fax: ()
Project #: 7828.000.001 Project Name: Jordan Ranch
Project Location: Fallon Rd., Dublin, CA
Sampler Signature: [Signature]

Analysis Requested

Helium Shroud SN#

Other:

Notes: Please Specify units if different than defaults VOCs is ug/m3 and fixed gas is uL/L. Leak check default is IPA.

| Field Sample ID (Location) | Collection | | Canister SN# | Sampler Kit SN# |
|-------------------------------|------------|---------|--------------|-----------------|
| | Date | Time | | |
| SG-1 | 6/26 | 9:27am | 7520-868 | |
| SG-2 | | 10:55am | 6201-742 | |
| SG-3 | | 11:59am | 7527-875 | |
| SG-4 | | 1:17pm | 5809-740 | |
| SG-5† | | 1:44pm | 6420-851 | |
| SG-6 | | 3:05pm | 7530-878 | |

| | | | | | | | | | | |
|-----------------------|-----------------------|----------------|--|--|--|-------------------------|-----------------------|---|--|--------|
| VOCs by TO-15 (ug/m3) | 8010 by TO-15 (ug/m3) | TPH(g) (ug/m3) | LEED (inc. 4PCH, Formaldehyde, CO, Total VOCs) | Fixed Gas: CO, Methane Ethane, Ethylene, Acetylene, CO (please circle or indicate in notes) uL/L | Fixed Gas: O2, N2 (please circle) uL/L | Fixed Gas: Propane uL/L | Helium Leak Check (%) | Leak Check (IPA, Ncflorane, 1,1-difluoroethane) ug/m3 | APH: Aliphatic and/or Aromatic (please circle) ug/m3 | Other: |
|-----------------------|-----------------------|----------------|--|--|--|-------------------------|-----------------------|---|--|--------|

| Matrix | | Cannister Pressure/ Vacuum | |
|---------|------------|----------------------------|-------|
| Soilgas | Indoor Air | Initial | Final |
| | | -30 | -6 |
| | | -29 | -5 |
| | | -30 | -6 |
| | | -30 | -5 |
| | | -29 | -5 |
| | | -30 | -5 |

Relinquished By: Matthew Miller Date: 6/26 Time: 4:41pm Received By: [Signature]
 Relinquished By: [Signature] Date: 6/27 Time: 3:50 Received By: [Signature]

Temp (°C): _____ Work Order #: _____
 Condition: _____
 Custody Seals Intact?: Yes _____ No _____ None _____
 Shipped Via: _____

Rec. @ MAT 200 6/27/14
170
710



Sample Receipt Checklist

Client Name: **ENGEO Incorporated** Date and Time Received: **6/30/2014 10:57:30 AM**
 Project Name: **#7828.000.001; Jordan Ranch** Login Reviewed by: **Jena Alfaro**
 WorkOrder No: **1406A93** Matrix: Soil Gas Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: pH<2; 522: pH<4)? Yes No NA
 Samples Received on Ice? Yes No

* NOTE: If the "No" box is checked, see comments below.

 Comments:

Perjury Statement

7828.000.001
August 18, 2014

August 19, 2014

Subject: Jordan Ranch Property – Former Leaking Underground Storage Tank
Dublin, California

PERJURY STATEMENT

“I declare, that to the best of my knowledge at the present time, the information and/or recommendations contained in the attached document are true and correct.”

Submitted by Responsible Party:



ROBERT RADANOVICH
BJP-ROF Jordan Ranch, LLC
5000 Hopyard Road, #170
Pleasanton, CA 94588