RECEIVED
By Alameda County Environmental Health 9:04 am, Nov 16, 2015

November 6, 2015

Mr. Mathew Soby
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Ste. 250
Alameda, CA 94502-6577
mathew.soby@acgov.org

Subject: **Soil, Water, and Soil Gas Investigation Report**
357 105th Avenue, Oakland, CA
Fuel Leak Case No. RO0003156; Global ID T10000006426

Dear Mr. Soby

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached *Soil, Water, and Soil Gas Investigation Report* for the above referenced property prepared by Almar Environmental are true and correct to the best of my knowledge.

Sincerely,

Mr. Dan Neishi
Responsible Party Representative

Soil, Water, and Soil Gas Investigation Report

357 105th Avenue
Oakland, California

October 21, 2015

Prepared for:
Neishi Brothers Nursery
c/o Dan S. Neishi Trust & Mitsugi Neishi Heirs of Estate
357 105th Avenue
Oakland, CA 94603

Prepared by:
Almar Environmental
407 Almar Avenue
Santa Cruz, California 95060

TABLE OF CONTENTS **Page No.**

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION

Almar Environmental (Almar) appreciates the opportunity to work on the 357 105th Avenue project in Oakland, California (Figures 1 through 3). Almar has been retained by the Dan S. Neishi Trust & Mitsugi Neishi Heirs of Estate to prepare this *Soil, Water, and Soil Gas Investigation Report* for the subject site. On July 20th, 2015 Almar prepared a Revised *Soil, Water, and Soil Gas Investigation Workplan and Site Conceptual Model* for the site. The Workplan proposed, in general, to advance up to eight (8) temporary borings in areas around the former tank location and in the assumed up and down gradient groundwater flow directions and collect soil and "grab" groundwater samples from each boring. The Workplan also proposed installing and collecting soil gas samples from four (4) temporary soil gas sampling points. The Alameda County health Care Services Agency (ACHCSA) reviewed the Workplan and issued a directive letter (Appendix A) approving the proposed scope of work. As such, the Workplan was implemented in September 2015. The details and results of the investigation are presented, herein.

2.0 SITE INFORMATION

The project site is located at 357 105th Avenue in the city of Oakland, California (Figure 1). The site consists of roughly rectangular residential/commercial property associated with Alameda County Assessor's parcel number 45-5370-9-2. An Aerial Photograph of the Site Area is included as Figure 2 and a detailed Site Map showing current and historical sampling locations is included as Figure 3.

2.1 Physical Setting

Based on the U.S. Geological Survey San Leandro, California Quadrangle 7.5 Minute Series Topo Map, the subject property is approximately 20 feet (ft) above mean sea level (msl). The topographic slope of the subject property and surrounding areas is generally to the west, towards the San Francisco Bay (Figure 1).

According to the *Preliminary Geologic Map Emphasizing Bedrock Formations in Alameda County, California*, the site lies upon Holocene and Pleistocene surficial undivided sediments (Qu) (Graymer, Jones, Brabb, 1996). Site specific soils, encountered during this current investigation were described as predominantly Silty Clay (CL). A more detailed description of the encountered subsurface materials is presented in Section 3.2.1.

The nearest surface water to the site is San Leandro Creek, located approximately 1,000 feet south of the subject site, and the San Francisco Bay which is located approximately 2.0 miles southwest of the site (Figure 1). Based upon topography of the area, regional groundwater flow is expected to be to the west/southwest (towards the San Francisco Bay and San Leandro Creek). Site specific groundwater conditions encountered during this current investigation are presented in Section 3.2.1.

2.2 Site Background and Summary of Previous Environmental Investigations

UST Removal – November, 2014

On November 25, 2014, one, approximately 1,000 gallon underground storage tank (UST), was removed under permit from the Oakland Fire Department (OFD) by Environmental Restoration Services, a licensed hazardous materials removal contractor. The tank was originally believed to have contained diesel but during the removal activities was found to contain gasoline. As required by the removal permit and under direction from the OFD inspector, ERS collected two soil samples, one from below

either end of the tank, at approximately 7.5 to 8.0 feet bgs. One additional, sample was also collected from below the former dispenser at approximately 3.0 feet bgs. Elevated concentrations of Total Petroleum Hydrocarbons as gasoline (TPHg) (up to 497 mg/Kg), ethylbenzene (up to 10.6 mg/Kg), and total xylenes (up to 48.3 mg/Kg) were reported in the samples collected from below the tank. Excavated overburden soil and clean imported baserock was compacted back into the tank pit following sampling. A full summary of the historical soil analytical data from the tank removal is presented in Table 2. Based upon these results, a leaking underground fuel tank (LUFT) case was opened by the ACHCSA and a directive letter was issued requesting a workplan be prepared to further assess the extent of contamination at the subject site and to characterize the case.

Soil, Water, and Soil Gas Investigation Workplan – July, 2015

On July 20th, 2015 Almar prepared a Revised *Soil, Water, and Soil Gas Investigation Workplan and Site Conceptual Model* for the site. This Workplan proposed, in general, to advance up to eight (8) temporary borings in areas around the former tank location and in the assumed up and down gradient groundwater flow directions and collect soil and "grab" groundwater samples from each boring. The Workplan also proposed installing and collecting soil gas samples from four (4) temporary soil gas sampling points. The ACHCSA reviewed the Workplan and issued a directive letter (Appendix A) approving the proposed scope of work. As such, the Workplan was implemented in September 2015. The details and results of the investigation are presented in the following sections.

3.0 SOIL, WATER, AND SOIL GAS FIELD INVESTIGATION

Field activities involving soil borings, grab groundwater, and soil gas sampling were performed on September 18 and 21, 2015. Almar advanced a total of eight (8) temporary borings (DP-1 through DP-8) and collected soil and grab groundwater samples from each of the borings. Additionally, Almar installed and collected soil gas samples from four (4) temporary soil gas sampling points (SG-1 through SG-4). The specific details of the investigation are presented below. All project activities were completed under the direction of a State of California Professional Geologist.

3.1 Regulatory Liaison, Permitting, and Project Management

Almar represented the client with regulatory agencies and onsite residences in meetings and/or communications. A representative of Almar also coordinated, oversaw, and/or conducted all activities detailed in this Workplan. Almar also obtained the appropriate subsurface drilling permit from the Alameda County Public Works Agency (ACPWA) (Appendix B). As required by law, Almar marked the subject property and notified Underground Service Alert (USA) to clear the boring locations of underground utilities prior to drilling activities.

3.2 Drilling and Soil Sampling

Soil borings were advanced by a C-57 licensed driller, under the direction of a licensed State of California Professional Geologist. A Geoprobe™ direct-push sampling rig, capable of continuous core soil sampling, was used to advance the temporary borings. The Geoprobe™ direct-pushed (hammered) a 2-inch diameter steel core barrel to the desired depth at each of the boring locations. The core barrels were lined with clear plastic disposable tubing to facilitate continuous soil coring and soil logging for description. Soils were logged using the United Soil Classification System (USCS). Soil samples were collected at five (5) foot intervals and where contamination was noted in the field with the photoionization detector (PID).

Soil samples for laboratory analysis were collected by cutting the desired section of disposable plastic tubing, sealing the ends of the tube with Teflon™ tape, and capped. The caps were then sealed with silicone tape, labeled, sealed in individual plastic bags, and placed in a pre-chilled ice chest with ice to remain at 4° Celsius (°C) until they arrived at the lab. A discussion of the soil sampling analytical results is presented in Section 4.2.

3.2.1 Encountered Subsurface Materials

Site specific soils encountered during this investigation were identified as predominately Silty Clay (CL) of varying consistency and plasticity from the ground surface to the total depths explored (12 to 13 feet bgs). Coarser grained materials described as Clayey Sand (SC) to Clayey Gravelly Sand (SW) were also encountered between 10.5 to 13 feet bgs in the majority of the borings advanced during this investigation. Groundwater was first encountered within these coarser grained materials and subsequently rose to a static to a static level as high as 3.90 feet bgs, indicative of a confined aquifer. Detailed boring logs depicting the encountered subsurface materials are presented in Appendix C.

3.3 Groundwater Sampling

Once groundwater was encountered in each of the borings, and a sufficient amount was present for sampling, the Macrocore sampler was removed from the boring, and a temporary flush threaded, ¾-inch schedule 40 polyvinyl chloride (PVC) casing was placed within the boring. The bottom cap was flush threaded and the screened casing was 0.010-inch slots. Groundwater samples were then collected from the temporary casing using a peristaltic pump. Each groundwater sample was collected in laboratory supplied EPA Testing Method approved containers, labeled, sealed in individual plastic bags, and placed in a pre-chilled ice chest with ice to remain at 4 degrees Celsius (ºC) until they arrive at the lab. A discussion of the groundwater sampling analytical results is presented in Section 4.3.

3.4 Borings for Temporary Soil-Gas Sampling Points

In addition to the borings described above, Almar also advanced four borings (SG-1 through SG-4) and converted each of the borings into temporary soil gas sampling points. Each boring was advanced with a Geoprobe™ direct-push sampling rig in the same manner described in Section 3.2. The boring locations are shown on Figure 3.

3.5 Construction of Soil-Gas Sampling Points

Following advancement of the borings, Almar converted each of the borings into temporary soil gas sampling points. Each sampling was constructed by placing ¼-inch diameter Teflon® tubing attached to a polyethylene vapor implant to 5.0 feet bgs. A sand pack consisting of #2/12 sand was then installed around the implant from 5.5 to 4.5 feet bgs. Approximately 12-inches of dry granular bentonite was placed above the sand pack, followed by a hydrated bentonite seal to the ground surface. The seal was designed to minimize ambient air from the atmosphere from intruding into the area of the polyethylene probe. Specific well construction details are depicted on the boring logs (Attachment C).

3.6 Soil Gas Sampling

On September 21, 2015, after allowing at least 48-hours post installation of the soil-gas sampling point for subsurface conditions to equilibrate, Almar conducted the purging and sampling of each of the four (4) soil gas sample points. To ensure representative soil gas samples were collected, Almar followed the steps outlined by the CA DTSC in their *Soil Gas Advisory Document* (March 2010). In general, a Helium tracer shroud was used to perform a quantitative leak test while sampling each soil gas point. A sealed

chamber was placed over the head of the soil gas point. A minimum 20% Helium in air atmosphere was maintained around the sample train and above the sample point annulus.

Each of the soil gas samples was collected using a SUMA® canister supplied by the contracted laboratory. Prior to the collection of the sample, the at least 3 purge volumes of air (soil gas) were removed from the probe and tubing associated with the point. Each sampling point was purged using a SUMA® canister (purge canister) attached to a flow meter which, in turn is attached to the Teflon tubing of the soil gas point. The sampling points were purged at a rate of 150 ml/minute. Once the points were purged, a sample collection SUMA® canister was attached to the Teflon tubing of the sampling point, the initial negative pressure of the canister measured (and recorded), and soil gas was delivered to the canister from the well until a negative pressure of about five-inches of Hg is noted on the vacuum gauge on the sample collection SUMA® canister. All vacuum readings were documented on the chain of custody record and are shown on the soil gas purge data sheets (Appendix D). A discussion of the soil gas sampling analytical results is presented in Section 4.4.

3.7 Backfilling of Borings

Once all soil, grab groundwater, and soil gas samples were collected from the borings, each boring was backfilled from the bottom of the boring to ground surface with neat cement grout. The neat cement grout was composed of a mix consistency of one 94 pound bag of Portland cement to five gallons of water.

4.0 SAMPLE ANALYSIS AND RESULTS

During the drilling activities, soil, grab groundwater, and soil gas samples for laboratory analysis were collected in the methods described in Sections 3.2, 3.3, and 3.6, respectively. The analytical results are summarized in the following sections.

4.1 Laboratory Analytical Methods

Soil and Groundwater Samples

Once all soil and groundwater samples were collected and appropriately packed, they were transported by courier observing chain-of-custody procedures to BC Laboratories, Inc. (State of California-certified testing laboratory #1186) for analysis. Soil samples from five foot intervals and all groundwater samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) and diesel (TPHd) by EPA Test Method 8015B/Fuel Finger Print. Each sample was additionally analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), MtBE, and naphthalene by EPA Test Method 8260b.

Soil Gas Samples

Once the soil gas samples were collected, they were transported, observing formal chain-of-custody (COC) procedures to Curtis & Tompkins, Ltd. (State of California-certified testing laboratory #2896) for analysis. Each soil gas sample was analyzed for VOCs (including PCE) by EPA Test Method TO-15, gasoline range organics (TPHg) by EPA Test Method TO-3, and the fixed gases Oxygen and Helium by ASTM D1946.

4.2 Soil Analytical Results

A total of sixteen (16) soil samples were submitted for laboratory analysis. A summary of the current analytical results is presented in Table 1, historical data is presented in Table 2. The complete laboratory data sheets are presented in Appendix E and summarized as follows:

- **TPHg** was not detected above laboratory detection limits (<20 mg/Kg) in any of the samples submitted for analysis;
- **TPHd** was not detected above laboratory detection limits (<20 mg/Kg) in any of the samples submitted for analysis;
- **Benzene** was detected above laboratory detection limits in one of the 16 samples submitted for analysis at a concentration of 0.049 mg/Kg in sample DP-4d10.0;
- **Toluene** was detected above laboratory detection limits in one of the 16 samples submitted for analysis at a concentration of 1.6 mg/Kg in sample DP-4d10.0;
- **Ethylbenzene** was detected above laboratory detection limits in one of the 16 samples submitted for analysis at a concentration of 1.7 mg/Kg in sample DP-4d10.0;
- **Xylenes** (total) were detected in two one of the 16 samples submitted for analysis at concentrations of 0.016 mg/Kg and 8.2 mg/Kg in samples DP-2d10.0 and DP-4d10.0, respectively;
- **MtBE** was not detected above laboratory detection limits (<0.005 mg/Kg) in any of the samples submitted for analysis; and
- **Naphthalene** was detected in three of the 16 samples submitted for analysis at concentrations ranging from 0.045 mg/Kg (DP-5d10.0) to 1.3 mg/Kg (DP-4d10.0).

4.3 Grab Groundwater Analytical Results

A summary of the laboratory analysis of the grab groundwater samples is presented in Table 3. The complete laboratory data sheets are presented in Appendix E. A brief summary of the analytical data is as follows:

- **TPHg** was detected in three of the eight samples submitted for analysis at concentrations ranging from 1,300 µg/L (DP-5) to 9,700 µg/L (DP-4);
- **TPHd** was detected above laboratory detection limits in one of the eight samples submitted for analysis at a concentration of 400 µg/L in sample DP-4;
- **Benzene** was detected in two one of the eight samples submitted for analysis at concentrations of 8.8 µg/L and 380 µg/L in samples DP-2 and DP-4, respectively;
- **Toluene** was detected in three of the eight samples submitted for analysis at concentrations ranging from 1.5 µg/L (DP-1) to 2,800 µg/L (DP-4);
- **Ethylbenzene** was detected in three of the eight samples submitted for analysis at concentrations ranging from 2.8 µg/L (DP-5) to 1,100 µg/L (DP-4);
- **Xylenes** (total) were detected in four of the eight samples submitted for analysis at concentrations ranging from 2.2 µg/L (DP-3) to 4,700 µg/L (DP-4);
- **MtBE** was not detected above laboratory detection limits (<0.50 µg/L) in any of the samples submitted for analysis; and
- **Naphthalene** was detected in three of the eight samples submitted for analysis at concentrations ranging from 33 µg/L (DP-5) to 210 µg/L (DP-4).

4.4 Soil Gas Analytical Results

A total of four soil gas samples (SG-1 through SG-4) were collected and submitted for laboratory analysis. A summary of the soil vapor sampling analytical laboratory results is presented in Table 4 and the complete laboratory data sheets are presented in Attachment F. A brief summary of the analytical data is presented as follows:

- **O_2** was reported in each of the four soil vapor samples submitted for analysis. The mol % concentrations ranged from 9.0% (SG-2) to 13% (SG-4);
- **Helium** was reported in three of the four samples submitted for analysis, at concentrations ranging from 0.27 Mol% (SG-1) to 0.51 Mol% (SG-2). These detected concentrations are well below the DTSC required 5%, indicating that minimal breakthrough occurred and all samples are valid;
- **TPHg** (C_6-C_{12}) was reported in each of the four samples submitted for analysis, at concentrations ranging from 26,000 µg/m^3 (SG-3) to 680,000 µg/m^3 (SG-4);
- **Benzene** was reported in each of the four samples submitted for analysis, at concentrations ranging from 12 µg/m^3 (SG-3) to 5,900 µg/m^3 (SG-2);
- **Toluene** was reported in two of the four samples submitted for analysis, at concentrations of 24 µg/m^3 and 100 µg/m^3 in SG-3 and SG-2, respectively;
- **Ethylbenzene** was reported in two of the four samples submitted for analysis, at concentrations of 170 µg/m^3 and 5,400 µg/m^3 in SG-3 and SG-4, respectively;
- **Xylenes** (total) were reported in two of the four samples submitted for analysis, at concentrations of 537 µg/m^3 and 1,600 µg/m^3 in SG-3 and SG-4, respectively;
- **MtBE** was not reported above laboratory detection levels in any of the samples submitted for analysis;
- **Naphthalene** was not reported above laboratory detection levels in any of the samples submitted for analysis; and
- No other contaminants of concern (COCs) were reported above laboratory detection limits in any of the samples submitted for analysis.

4.5 Discussion of Analytical Results

The purpose of this investigation was to 1.) Further define the extent of contaminants of concern in subsurface soils, 2.) Determine the extent of impacts to groundwater (if any), and 3.) Determine the condition of soil vapor at the subject site.

Soil Results

A total of 16 soil samples were collected and submitted for laboratory analysis as part of this investigation. Based upon the analytical results, the vertical and horizontal extent of soil contamination has been sufficiently defined, as only low concentrations of BTEX compounds were detected in one sample (DP-4d10.0) during this investigation. It should also be noted that relatively low concentrations of naphthalene were also detected in three of the samples submitted for analysis. However, as shown on Table 1, the highest detected concentration was 1.3 mg/Kg which is well below the established residential Low Threat Closure Policy (LTCP) value of 9.7 mg/Kg. This also indicates that minimal, if any, secondary source remains in the subsurface soils at the site.

Groundwater Results

A total of eight grab groundwater samples were collected and submitted for laboratory analysis as part of this investigation. Based upon the analytical results, and as shown on Table 3, shallow groundwater at the subject site appears to be impacted with TPHg, benzene, and naphthalene (and to a lesser extent toluene, ethylbenzene and total xylenes). As illustrated on Figures 4 through 7, the lateral extent of groundwater contamination appears to be sufficiently delineated to the north, east, and south. However, the plume appears to be unbounded to the west and southwest, in the direction of temporary borings DP-2 and DP-5, respectively. Groundwater at the site is estimated to flow in a southwesterly

direction. Slightly elevated concentrations of TPHg and Naphthalene in the samples collected from these two borings indicate the plume is still undefined in these directions.

Soil Gas Results

A total of four soil gas samples were collected and submitted for laboratory analysis as part of this investigation. Each of the samples was collected from 5 feet bgs in the locations shown on Figure 3. O_2 was reported in each of the four samples at mol % concentrations ranging from 9.0% (SG-2) to 13% (SG-4). For LTCP purposes this indicates a 5 foot bioattenuation zone is present at the site (LTCP: Appendix 4 -Scenario 4). Laboratory analysis of the samples also indicated TPHg and benzene were present in three of the four samples at concentrations exceeding Regional Water Quality Control Board (RWQCB) established environmental screening levels (ESLs) for residential properties (Table 4). However, all detected soil gas concentrations were below LTCP established concentrations for potential residential properties where a bioattenuation zone is present.

5.0 LTCP DATA GAP ANALYSIS

Based upon the results of this investigation, Almar believes this case may potentially qualify for closure under the State Water Resource Control Board's (SWRCB's) Low Threat Closure Policy (LTCP). In order for the case to qualify for closure, all general and media-specific criteria of the policy must be met. In the following sections each criteria of the LTCP is addressed and any remaining data gaps are identified.

5.1 General Criteria

There are eight specific general criteria (identified as a through h) of the LTCP that must be satisfied prior to closure. The following is a list of each of these eight criteria and whether they have been satisfied or not:

a. The unauthorized release is located within the service area of a public water system.
   - **Yes,** this criteria has been met.

b. The unauthorized release consists only of petroleum.
   - **Yes,** this criteria has been met. The main constituent of concern (COC) appears to be TPHg, and to a lesser extent benzene and naphthalene.

c. The unauthorized ("primary") release from the UST system has been stopped.
   - **Yes,** this criteria has been met. All known USTs and associated pipes and appurtenant structures have been removed.

d. Free product has been removed to the maximum extent practicable.
   - **Yes**, this criteria appears has been met. No free product was encountered during tank removal activities or during this initial soil and water investigation.

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed.
   - **Yes**, an initial site conceptual model (SCM) was prepared for the site. The SCM was prepared and presented as part of Almar's *Revised Soil, Water, and Soil Gas Investigation Workplan and Site Conceptual Model* document. A copy of this document can be found on file with the ACHCSA and online within the SWRCB's Geotracker database at the following link:

http://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4202234625/T10000006426.PDF

f. Secondary source has been removed to the extent practicable.
   - **Yes**, this criteria appears has been met. "Secondary source" is defined as petroleum-impacted soil or groundwater located at or immediately beneath the point of release from the primary source. Based upon the results of this investigation, little to no secondary source remains in the subsurface soils and groundwater at the site.

g. Soil and groundwater have been tested for MtBE and results reported in accordance with Health and Safety Code section 25296.15.
   - **Yes**, this criteria appears has been met. Soil and groundwater samples collected during this current investigation were tested for MtBE. MtBE was not detected above laboratory test limits in any of the samples submitted for analysis (Table 1 and 3).

h. Nuisance as defined by Water Code section 13050 does not exist at the site.
   - **Yes**, this criteria appears has been met, as no nuisances as defined by the policy are known to exist at the site.

5.2 Media-Specific Criteria

To simplify implementation, the LTCP has identified three media-specific criteria which must be addressed and satisfied. The three media-specific criteria are: 1.) Groundwater, 2.) Vapor Intrusion to Indoor Air, and 3.) Direct Contact and Outdoor Air Exposure. Each of these three criteria are addressed below.

1.) Groundwater-Specific Criteria

To satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds water quality objectives must be stable or decreasing in areal extent, and meet all of the additional characteristics of one of the five classes of groundwater sites listed in the LTCP. Which of the five classes the site falls under is determined by plume length, free product status, the location of the nearest water supply well or surface water body, and the dissolved concentrations of benzene and MtBE. Based upon the results of this current investigation we know that the dissolved phase concentration of both benzene and MtBE is less than 1,000 µg/L and there is no free product at the site. Therefore, the site will likely follow under groundwater-specific criteria scenario 4. However, to qualify for closure under this scenario the contaminant plume length must be less than 1,000 feet. At this juncture, an official plume length has not been determined. As discussed in Section 4.5, the plume appears to still be unbounded in the downgradient direction, southwest of boring location DP-5. This lack of a definitive plume length is data gap #1.

Additionally, in order to qualify for closure under scenario 4, the nearest existing water supply well or surface water body must be greater than 1,000 feet from the defined plume boundary. The nearest known surface water body is the San Leandro Creek, which is located almost exactly 1,000 feet southwest of the subject site. Once a proper plume length is determined an exact evaluation of the distance of this creek from the edge of the plume must be made. Additionally, a formal well survey has not been conducted to determine if any active water supply wells exist within a 1,000 foot radius of the site. This lack of a formal well survey is data gap #2.

2.) Petroleum Vapor Intrusion to Indoor Air

Exposure to petroleum vapors migrating from soil or groundwater to indoor air may pose unacceptable human health risks. Because buildings for human occupancy (residential) are reasonably expected to be constructed in the future, the vapor intrusion risks to indoor air must be addressed. These vapor intrusion concerns were addressed as part of this current investigation. Based upon the results of this investigation, the site appears to meet the criteria of Scenario 4 (Appendix 4) of the LTCP. The site meets this criteria because: 1.) a bioattenuation zone (as defined by the LTCP) is present and 2.) all measured soil gas concentrations are less than the minimum required concentrations for benzene, ethylbenzene, and naphthalene (see Table 4). Therefore, this media-specific criteria has been met.

3.) Direct Contact and Outdoor Air Exposure

The LTCP describes conditions where direct contact with contaminated soil or inhalation of contaminants volatized to outdoor air poses a low threat to human health. Table 1 of the LTCP describes concentrations of constituents (specifically, benzene, ethylbenzene, naphthalene, and PAHs) in soil that will have no significant risk of adversely affecting human health. A total of 20 soil samples from various depths were collected during this current investigation and analyzed for the contaminants of concern. None of the subsurface samples were found to contain concentrations exceeding those described in Table 1 of the LTCP (see tables 1A and 1B). Therefore, this condition of the LTCP has been satisfied.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

The following conclusions are based upon review of historical environmental reports, interpretation of analytical data, and field measurements collected during September 2015:

- The vertical and lateral extent of contaminants of concern (primarily TPHg, benzene, and naphthalene) in subsurface soils appear to be fully defined.
- Little (if any) secondary source appears to remain in the subsurface at the subject site. This indicates that secondary source has been removed to the extent practical.
- Shallow groundwater at the subject site appears to be impacted with TPHg, benzene, and naphthalene (and to a lesser extent toluene, ethylbenzene and total xylenes). The lateral extent of groundwater contamination appears to be sufficiently delineated to the north, east, and south. However, the plume appears to be unbounded to the west and southwest, in the direction of temporary borings DP-2 and DP-5, respectively.
- A total of four soil gas samples were collected and submitted for laboratory analysis as part of this investigation. O_2 was reported in each of the four samples at mol % concentrations ranging from 9.0% (SG-2) to 13% (SG-4). For LTCP purposes this indicates a 5 foot bioattenuation zone is present at the site (LTCP: Appendix 4 -Scenario 4). All detected soil gas concentrations were below LTCP established concentrations for potential residential properties where a bioattenuation zone is present.
- The site meets all eight (identified as a through h) of the general criteria of the LTCP.
- The site meets the media-specific criteria of the LTCP for petroleum vapor intrusion to indoor air.

- The site meets the media-specific criteria of the LTCP for direct contact and outdoor air exposure.
- The site does not meet media-specific criteria of the LTCP for groundwater specific criteria because two data gaps remain: 1.) lack of a definitive plume length and 2.) a formal well survey has not been conducted.

6.2 Recommendations

Based on the data collected during this investigation and the above conclusions, Almar makes the following recommendations:

- An additional soil and water investigation should be conducted to fully determine the lateral extent of groundwater contamination in currently unbounded directions to the west and southwest of temporary borings DP-2 and DP-5.
- A formal well survey should be conducted.

7.0 CERTIFICATION AND DISTRIBUTION

To the best of our knowledge, all statements made in this report are true and correct. This report is based on data provided by the client and others, site conditions observed, samples collected and analytical data. No warranty whatsoever is made that this report addresses all contamination found on the site.

Respectfully submitted,

Forrest N. Cook
Owner/Principal Scientist
Almar Environmental
California Professional Geologist #8201 (exp 9/16)

cc:
Mr. Mathew Soby
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Ste. 250
Alameda, CA 94502-6577
mathew.soby@acgov.org

8.0 REFERENCES

Almar Environmental. May 4, 2015. *Initial Soil and Water Investigation Workplan and Site Conceptual Model*. 357 105th Ave., Oakland, CA.

Almar Environmental. July 21, 2015. *Revised Initial Soil and Water Investigation Workplan and Site Conceptual Model*. 357 105th Ave., Oakland, CA.

Brabb, E.E., Graymer, R.W., and Jones, D.L., 1996, *Preliminary Geologic Map Emphasizing Bedrock Formations in Alameda County, California: Derived from the Digital Database Open-File 96-252*. U.S. Geological Survey, Menlo Park, CA.

Environmental Restoration Services. November 15, 2014. *Underground Tank Technical Closure Report.* 357 105th Avenue, Oakland, California.

United States Department of the Interior Geologic Survey (USGS). 1954, Revised 1994. San Leandro, California 7.5-Minute Quadrangle.

FIGURES

APPROX. SCALE

0 1.0 2.0 MI

SOURCE: USGS 1:24,000 SCALE SERIES SAN LEANDRO, CA QUAD

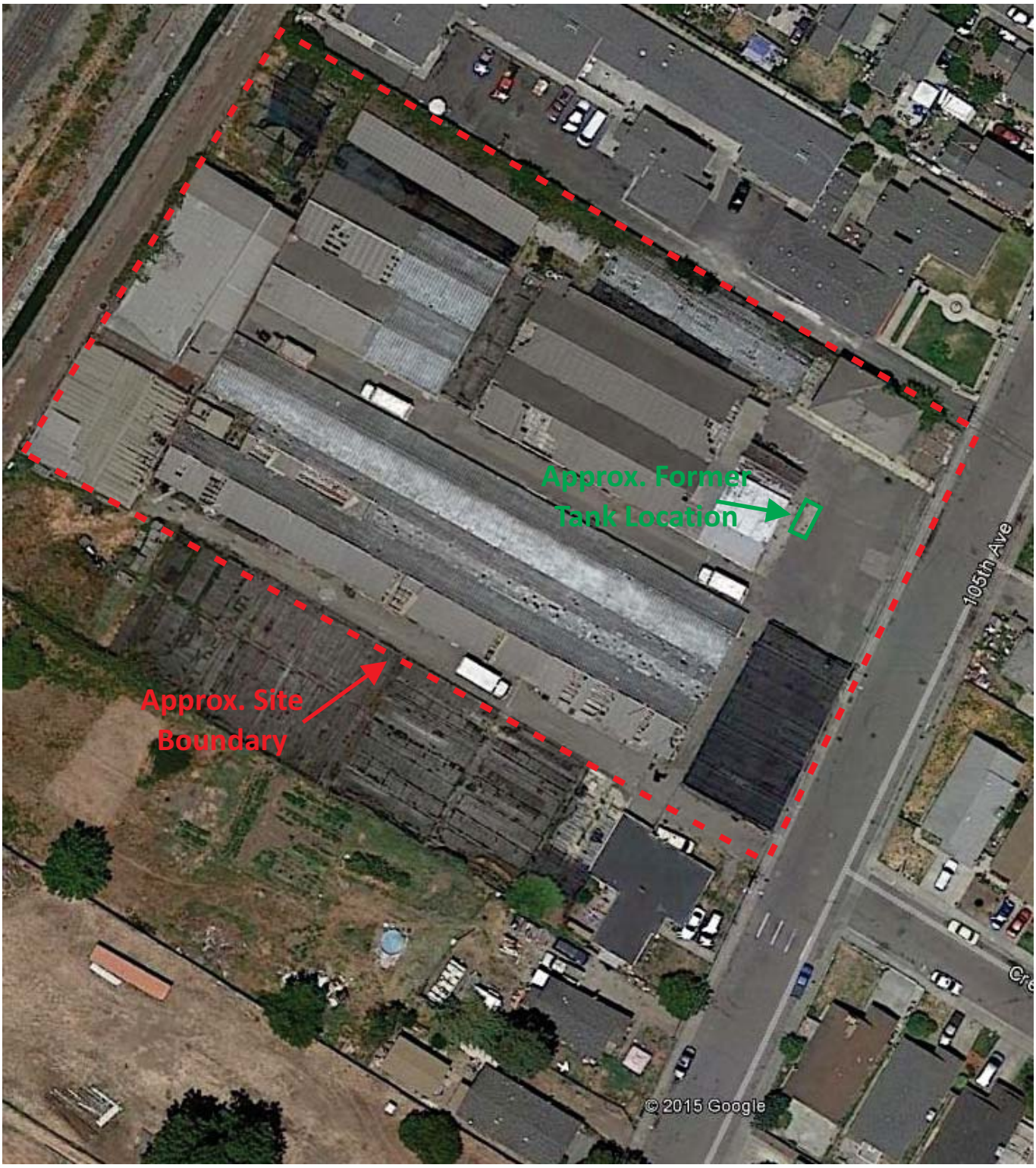
ALMAR environmental

357 105th AVENUE
OAKLAND, CALIFORNIA

SITE VICINITY TOPO MAP

FIGURE

1



SOURCE: Google Earth, 2015

APPROX. SCALE

0 75 150 FT.

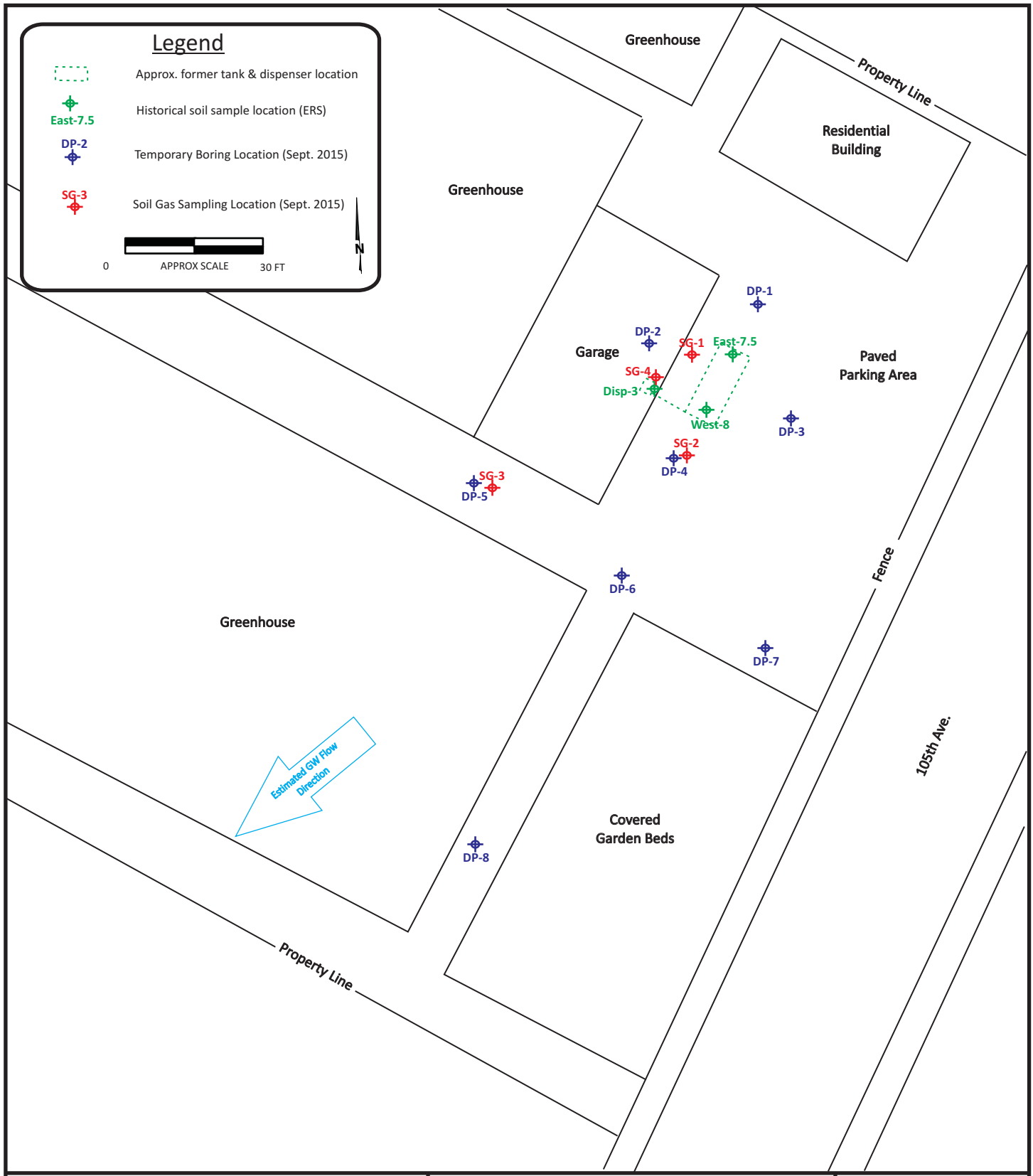
ALMAR environmental

357 105th AVENUE
OAKLAND, CALIFORNIA

AERIAL PHOTOGRAPH
OF SITE AREA

FIGURE

2



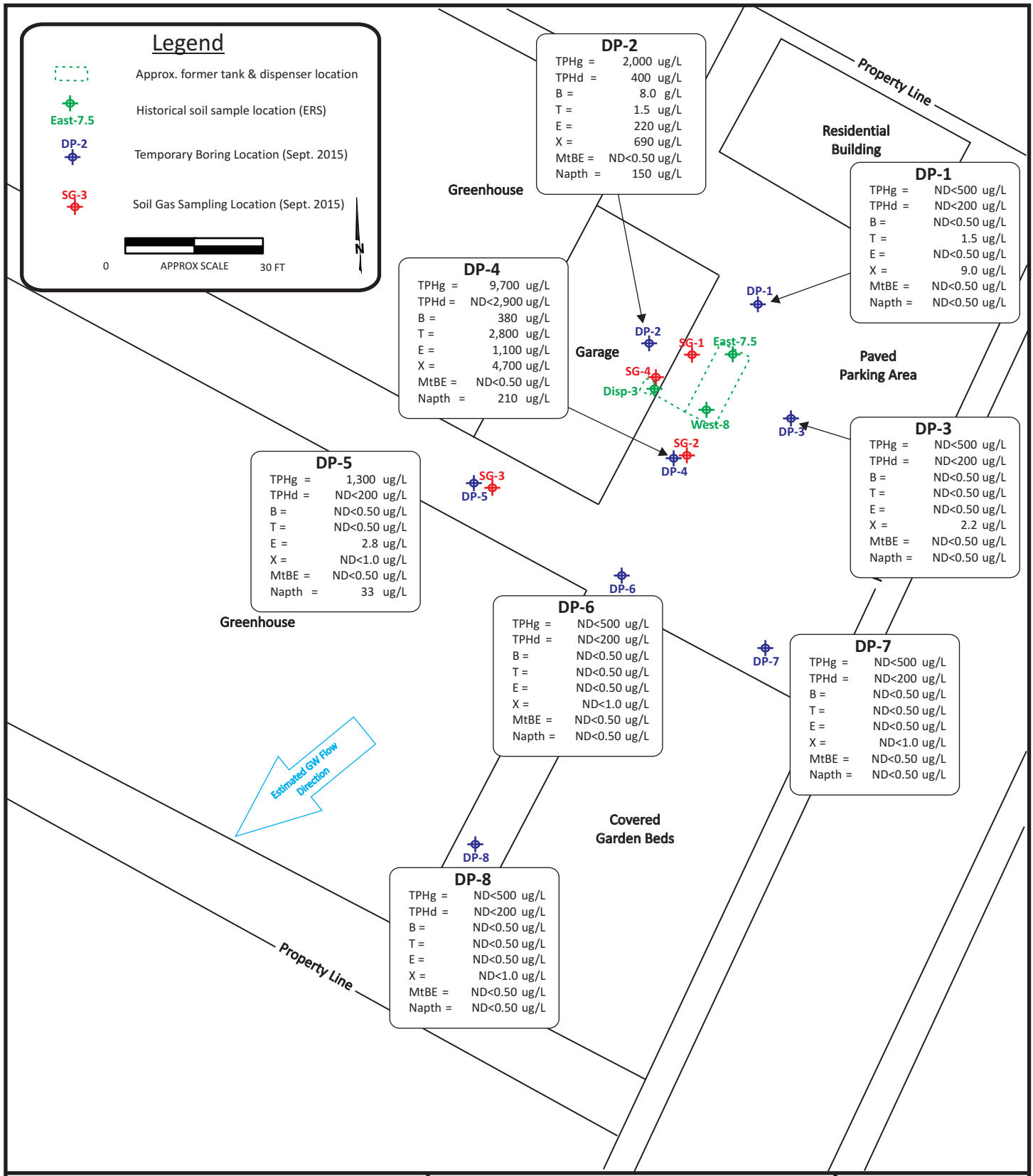
ALMAR environmental

357 105th AVENUE
OAKLAND, CALIFORNIA

SITE MAP SHOWING CURRENT & HISTORICAL BORING LOCATIONS

FIGURE

3



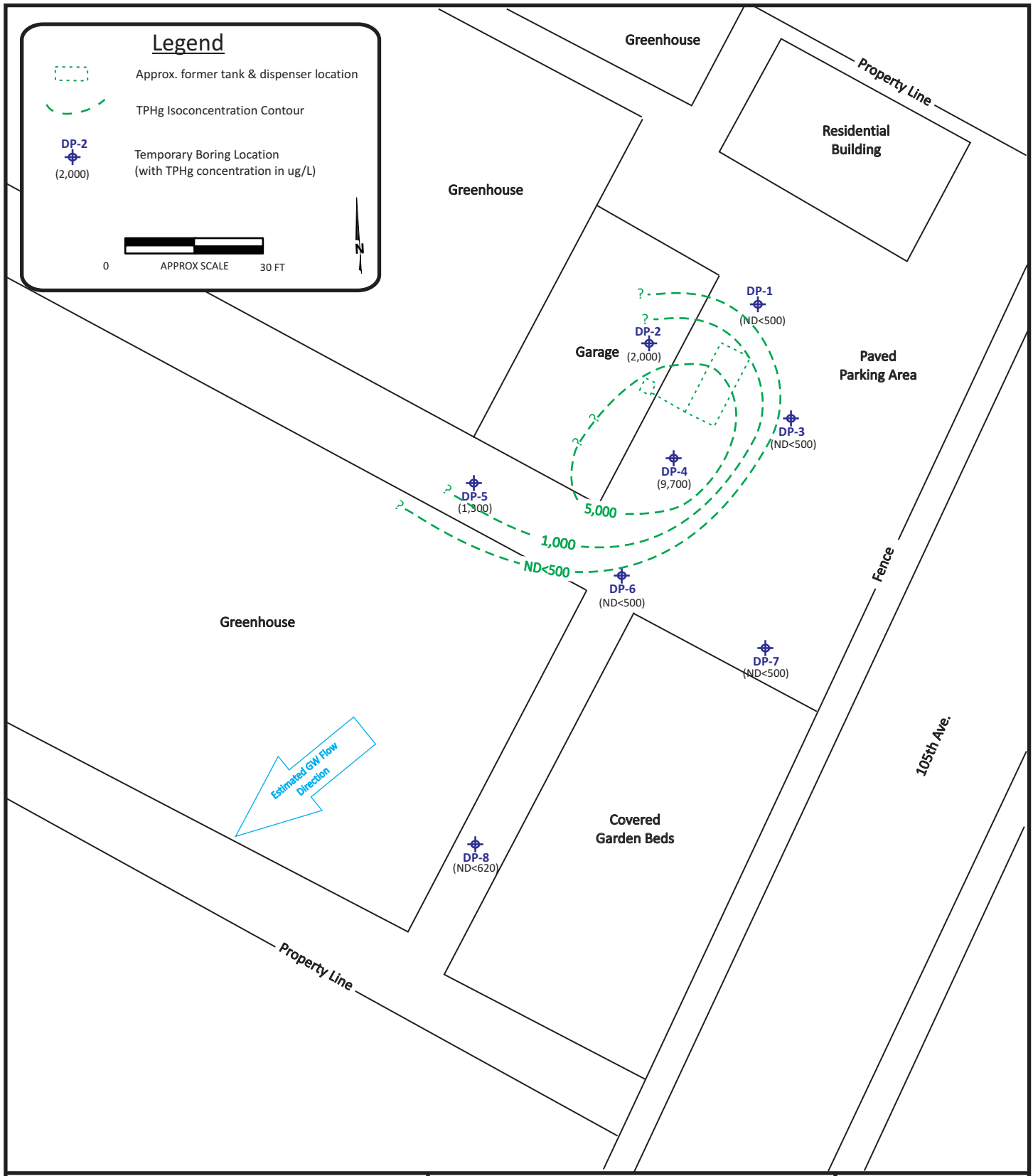
ALMAR environmental

357 105th AVENUE
OAKLAND, CALIFORNIA

SITE MAP SHOWING CURRENT GROUNDWATER CONCENTRATIONS (9/18/15)

FIGURE

4



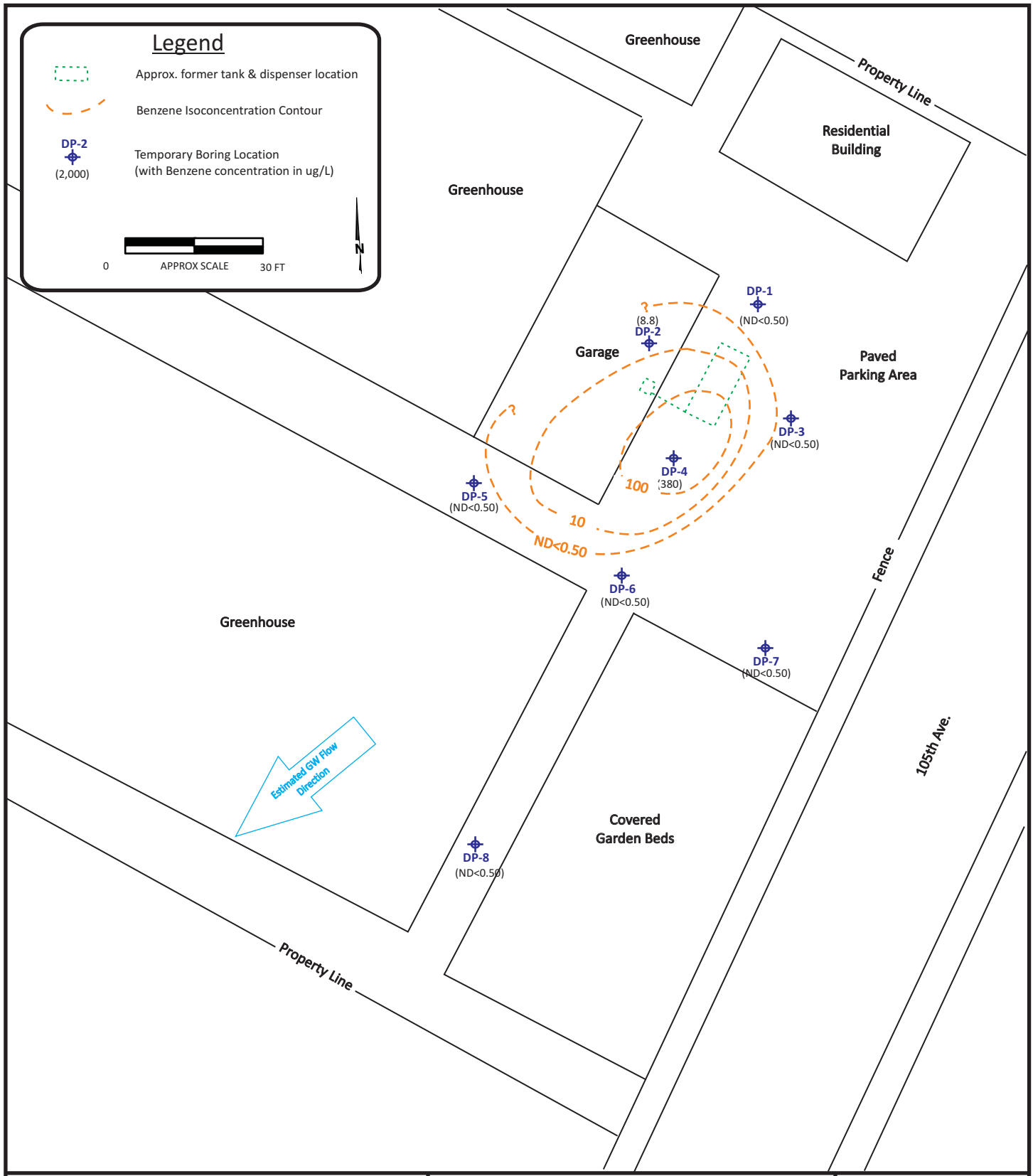
ALMAR environmental

357 105th AVENUE
OAKLAND, CALIFORNIA

TPHg ISOCONCENTRATION MAP
SEPTEMBER 18, 2015

FIGURE

5



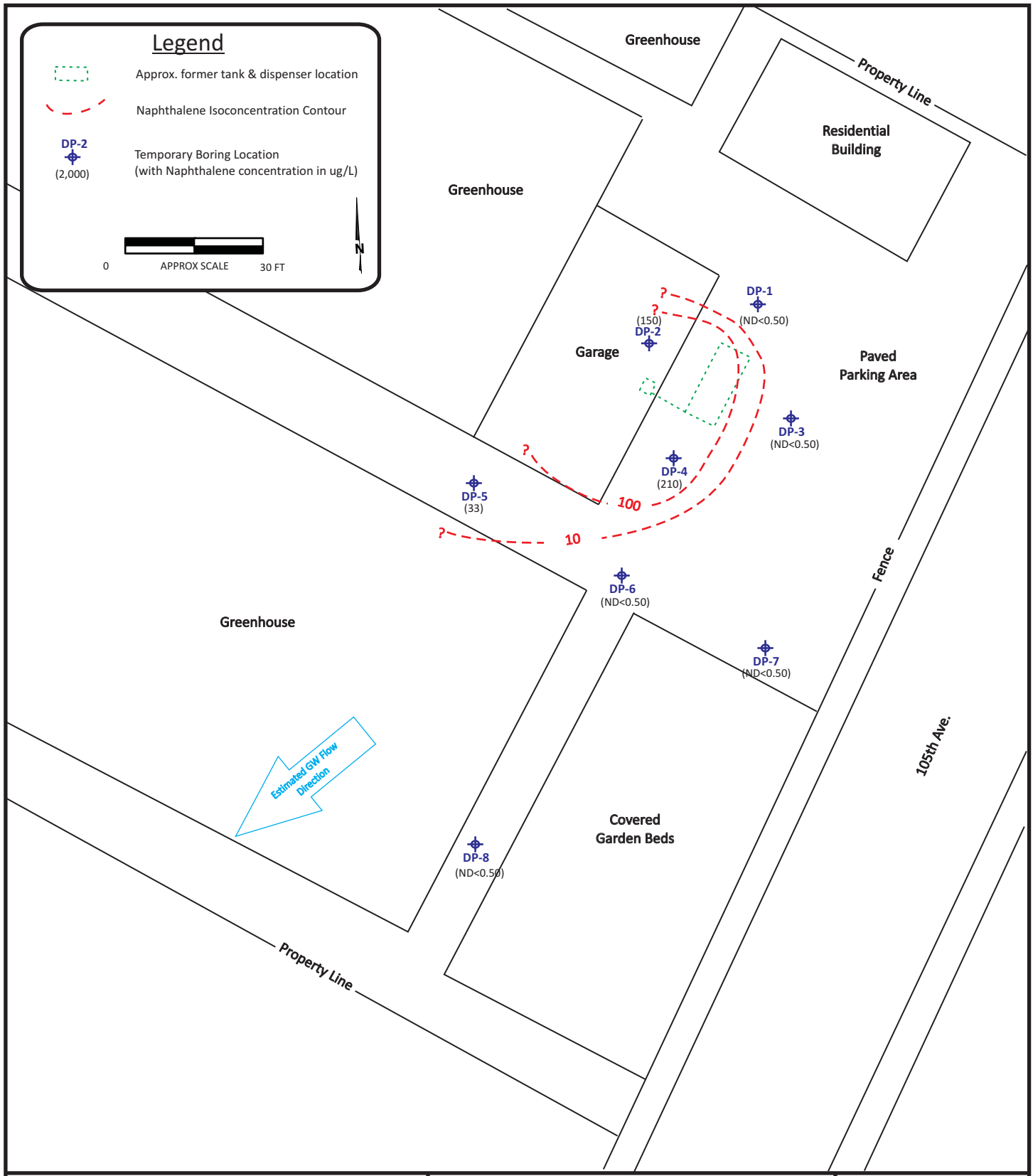
ALMAR environmental

357 105th AVENUE
OAKLAND, CALIFORNIA

BENZENE ISOCONCENTRATION MAP
SEPTEMBER 18, 2015

FIGURE

6



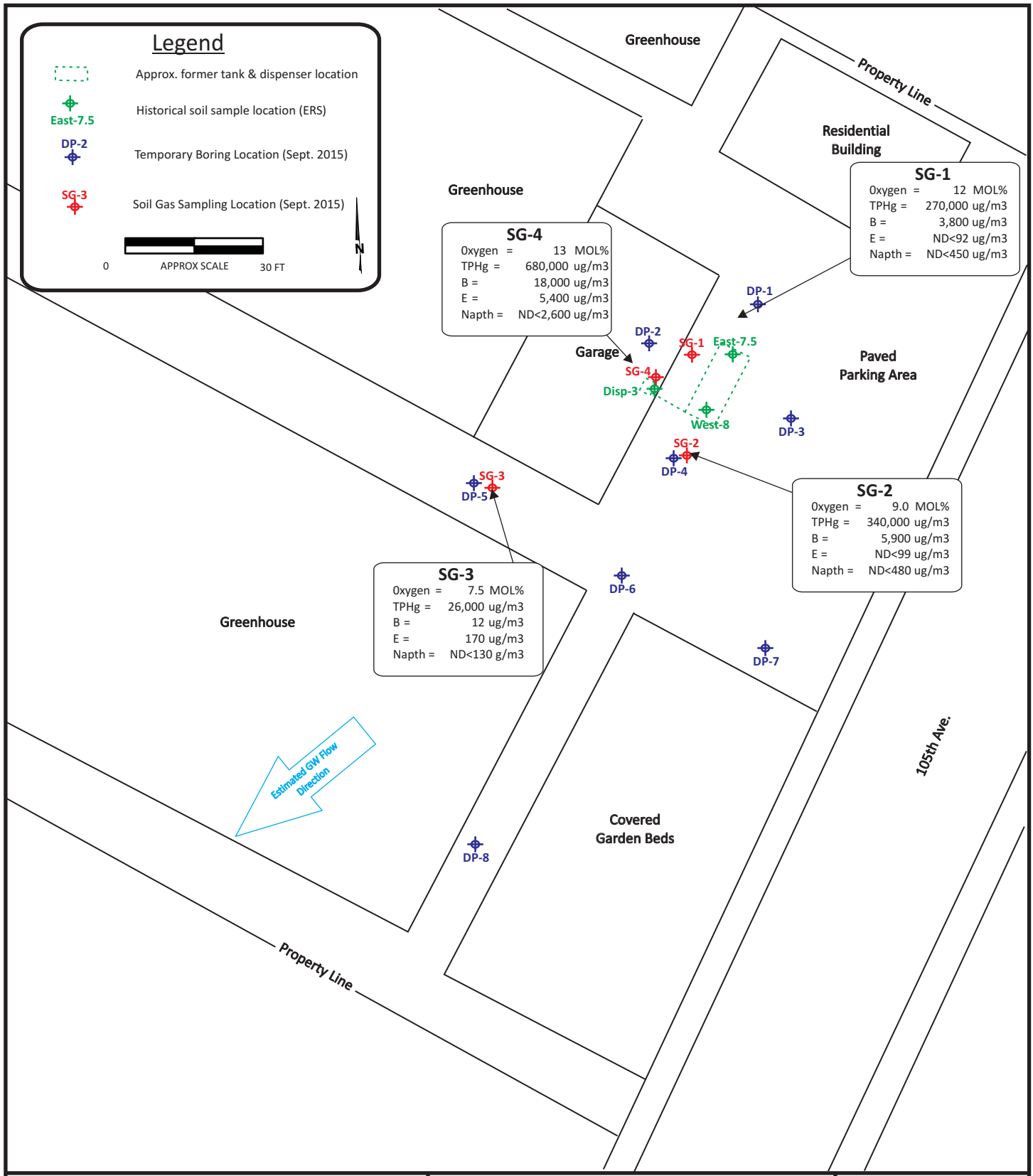
ALMAR environmental

357 105th AVENUE
OAKLAND, CALIFORNIA

NAPHTHALENE ISOCONCENTRATION MAP
SEPTEMBER 18, 2015

FIGURE

7



ALMAR environmental

357 105th AVENUE
OAKLAND, CALIFORNIA

SITE MAP SHOWING
SOIL GAS CONCENTRATIONS (9/21/15)

FIGURE

8

TABLES

TABLE 1
SUMMARY OF CURRENT SOIL ANALYTICAL DATA
359 105th Avenue
Oakland, California

Sample ID	Sample Depth (ft.)	Sample Date	TPHg (mg/Kg)	TPHd (mg/Kg)	B (mg/Kg)	T (mg/Kg)	E (mg/Kg)	X (mg/Kg)	MtBE (mg/Kg)	Naphth. (mg/Kg)
DP-1d5.0	5.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005
DP-1d10.0	10.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005
DP-2d5.0	5.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005
DP-2d10.0	10.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	**0.016**	ND<0.005	ND<0.005
DP-3d5.0	5.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005
DP-3d10.0	10.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005
DP-4d5.0	5.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	**0.072**
DP-4d10.0	10.0	09/18/15	ND<20	ND<10	**0.049**	**1.6**	**1.7**	**8.2**	ND<0.005	**1.3**
DP-5d5.0	5.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005
DP-5d10.0	10.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	**0.045**
DP-6d5.0	5.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005
DP-6d10.0	10.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005
DP-7d5.0	5.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005
DP-7d10.0	10.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005
DP-8d5.0	5.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005
DP-8d10.0	10.0	09/18/15	ND<20	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005
ESL Residential			**100**	**100**	**0.044**	**2.9**	**3.3**	**2.3**	**0.023**	**1.2**
LTCP Residential (0' to 5')			**---**		**1.9**	**---**	**21.0**	**---**	**---**	**9.7**
LTCP Residential (5' to 10')			**---**		**2.8**	**---**	**32.0**	**---**	**---**	**9.7**

Notes:

--- = Parameter not analyzed

<0.5 / ND = Not present at or above reporting detection limit

mg/Kg = milligrams per kilogram = parts per million = ppm

ESLs = RWQCB Environmental Screening Levels shallow soil (Table A: Potential source of drinking water)

LTCP = Low Threat Closure Policy - Table 1: Concentrations of Petroleum Constituents in soil that will have no significant risk of adversly affecting human health

TPHg = Total Petroleum Hydrocarbons as gasoline

TPHd = Total Petroleum Hydrocarbons as diesel

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total Xylenes

Naphth. = Naphthalene

MtBE = Methyl-t-butyl ether

Bolded Value =detected concentration

Shaded Value = concentration excedes either ESL or LTCP value

TABLE 2
SUMMARY OF HISTORICAL SOIL ANALYTICAL DATA
359 105th Avenue
Oakland, California

Sample ID	Sample Depth (ft.)	Sample Date	TPHg (mg/Kg)	B (mg/Kg)	T (mg/Kg)	E (mg/Kg)	X (mg/Kg)	MtBE (mg/Kg)	DIPE (mg/Kg)	TAME (mg/Kg)	TBA (mg/Kg)	Lead (mg/Kg)
EAST-7.5	7.5	11/25/14	**497**	ND<0.630	ND<0.630	**10.6**	**48.3**	ND<1.3	ND<0.630	ND<0.630	ND<13	**5.1**
WEST-8	8.0	11/25/14	**165**	ND<0.190	ND<0.190	**2.12**	**9.92**	ND<3.8	ND<0.190	ND<0.190	ND<3.80	**7.2**
DISP-3	3.0	11/25/14	ND<0.049	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.001	ND<0.001	ND<0.0005	ND<0.0005	ND<0.01	**6.2**
ESL Residential			**100**	**0.044**	**2.9**	**3.3**	**2.3**	**0.023**	**---**	**---**	**0.075**	**80**
LTCP Residential (0' to 5')			**---**	**1.9**	**---**	**21.0**	**---**	**---**	**---**	**---**	**---**	**---**
LTCP Residential (5' to 10')			**---**	**2.8**	**---**	**32.0**	**---**	**---**	**---**	**---**	**---**	**---**

Notes:

11/25/14 samples collected by ERS
--- = Parameter not analyzed
<0.5 / ND = Not present at or above reporting detection limit
mg/Kg = milligrams per kilogram = parts per million = ppm
ESLs = RWQCB Environmental Screening Levels shallow soil (Table A: Potential source of drinking water)
LTCP = Low Threat Closure Policy - Table 1: Concentrations of Petroleum Constituents in soil that will have no significant risk of adversly affecting human health
TPHg = Total Petroleum Hydrocarbons as diesel
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total Xylenes
MtBE = Methyl-t-butyl ether
DIPE = Di-isopropyl ether
TAME = Tert-Amyl Methyl ether
TBA = Tert Butyl Alcohol

Bolded Value =detected concentration
Shaded Value = concentration excedes either ESL or LTCP value

TABLE 3
SUMMARY OF CURRENT GROUNDWATER ANALYTICAL DATA
359 105th Avenue
Oakland, California

Sample ID	Sample Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	Naphth. (ug/L)
DP-1	09/18/15	ND<500	ND<200	ND<0.50	**1.5**	ND<0.50	**9.0**	ND<0.50	ND<0.50
DP-2	09/18/15	**2,000**	**400**	**8.8**	**15**	**220**	**690**	ND<0.50	**150**
DP-3	09/18/15	ND<500	ND<200	ND<0.50	ND<0.50	ND<0.50	2.2	ND<0.50	ND<0.50
DP-4	09/18/15	**9,700**	ND<2,900	**380**	**2,800**	**1,100**	**4,700**	ND<0.50	**210**
DP-5	09/18/15	**1,300**	ND<200	ND<0.50	ND<0.50	**2.8**	ND<1.0	ND<0.50	**33**
DP-6	09/18/15	ND<500	ND<200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
DP-7	09/18/15	ND<500	ND<200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
DP-8	09/18/15	ND<620	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
ESL Residential		**100**	**100**	**1.0**	**40.0**	**30.0**	**20.0**	**5.0**	**6.2**

Notes:

Samples DP-1 thru DP-8 collected as "grab" groundwater samples
--- = Parameter not analyzed
<0.5 / ND = Not present at or above reporting detection limit
ug/L = micrograms per Liter = parts per billioni = ppb
ESLs = RWQCB Environmental Screening Levels shallow soil (Table A: Potential source of drinking water)
LTCP = Low Threat Closure Policy - Table 1: Concentrations of Petroleum Constituents in soil that will have no significant risk of adversly affecting human health
TPHg = Total Petroleum Hydrocarbons as gasoline
TPHd = Total Petroleum Hydrocarbons as diesel
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total Xylenes
Naphth. = Naphthalene
MtBE = Methyl-t-butyl ether

Bolded Value =detected concentration
Shaded Value = concentration excedes either ESL or LTCP value

TABLE 4
SUMMARY OF CURRENT SOIL GAS ANALYTICAL DATA
359 105th Avenue
Oakland, California

SAMPLE ID	Sample Depth (ft.)	Sample Date	Oxygen (O_2)	Helium	TPHg (C6-C12)	Acrolin	Acetone	Carbon Disulfide	n-Hexane	2-Butanone	Chloroform	Cyclohexane	Benzene	n-Heptane	Toluene	Ethylbenzene	Xylenes (total)	Naphthalene	Other VOCs
			Mol%	Mol%	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
SG-1	5.0	09/21/15	**12**	**0.27**	**270,000**	**320**	**1,100**	**190**	**22,000**	**900**	**120**	**13,000**	**3,800**	**8,800**	ND<80	ND<92	ND<184	ND<450	<MDL
SG-2	5.0	09/21/15	**9.0**	**0.51**	**340,000**	**610**	**1,000**	**230**	**12,000**	**810**	ND<120	**25,000**	**5,900**	**3,600**	**100**	ND<99	ND<198	ND<480	<MDL
SG-3	5.0	09/21/15	**7.5**	ND<0.21	**26,000**	**68**	**320**	**140**	**78**	**230**	**42**	**99**	**12**	**78**	**24**	**170**	**537**	ND<130	<MDL[1]
SG-4	5.0	09/21/15	**13**	**0.33**	**680,000**	ND<1100	ND<1200	ND<380	43,000	ND<360	ND<600	**33,000**	**18,000**	**32,000**	ND<470	**5,400**	**1,600**	ND<2600	<MDL
Residential ESL			**NA**	**NA**	**150,000**	**NA**	**1.6E+07**	**NA**	**NA**	**NA**	**230**	**NA**	**42**	**NA**	**160,000**	**490**	**52,000**	**36**	**Varies**
Residential CHHSL			**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**85**	**NA**	**320,000**	**1,100**	**NA**	**93**	**Varies**
LTCP w/Bioattenuation			**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**85,000**	**NA**	**NA**	**1,000,000**	**NA**	**93,000**	**Varies**
LTCP w/o Bioattenuation			**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**85**	**NA**	**NA**	**1,100**	**NA**	**93**	**Varies**

Notes:

--- = Parameter not Sampled
NA = Not analyzed or Not established
<0.5 / ND = Not present at or above reporting detection limit
ug/m3 = micrograms per cubic meter = ppmv
ESLs = RWQCB established environmental screening levels, May 2013
CHHSL = California Human Health Screening Level - January 2005
LTCP = Low Threat Closure Policy (Appendix 4 - Scenerio 4)

<MDL[1] = 4-Methyl-2-Pentanone at 30 ug/m3

Bold = detected concentration
= value detected above corresponding ESL or CHHSL

ALMAR environmental

APPENDIX A

Directive Letter

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

August 18, 2015

Neishi Brothers Nursery
c/o: Dan S. Neishi Trust &
Mitsugi Neishi Heirs of Estate et al.
357 105th Avenue
Oakland, CA 94603

Subject: Work Plan Approval for Fuel Leak Case No. No. RO0003156 and GeoTracker Global ID T10000006426, Neishi Brothers Nursery, 357 105th Avenue, Oakland, CA 94603

Dear Neishi Brothers Nursery:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above referenced site including the recently submitted report entitled, "*Revised Soil, Water, and Soil Gas Investigation Work Plan and Site Conceptual Model*," dated July 20, 2015 (Revised Work Plan). The Work Plan, which was prepared on your behalf by Almar Environmental, presents plans for soil, groundwater, and soil gas sampling. The Revised Work Plan was prepared to address the technical comments in our June 10, 2015 directive letter.

The Revised Work Plan adequately addressed our technical comments and may be implemented as proposed. We request that you implement the Revised Work Plan and present the reports requested below.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Jerry Wickham), and to the State Water Resources Control Board's GeoTracker website according to the following schedule and file-naming convention:

- **December 11, 2015** – Site Investigation Report
  File to be named: SWI_R_yyyy-mm-dd RO3156

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

If you have any questions, please call me at 510-567-6791 or send me an electronic mail message at jerry.wickham@acgov.org. Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm. If your email address does not appear on the cover page of this notification, ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Attachments: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Forrest Cook, Almar Environmental, 407 Almar Avenue, Santa Cruz, CA 95060 (*Sent via E-mail to: cook.forrest@gmail.com*)

Jerry Wickham, ACEH (*Sent via E-mail to: jerry.wickham@acgov.org*)

GeoTracker, eFile

Attachment 1

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**REVISION DATE:** May 15, 2014
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**.
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

1) Obtain User Name and Password
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to deh.loptoxic@acgov.org
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

APPENDIX B

Drilling Permit - ACPWA

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 07/22/2015 By jamesy

Permit Numbers: W2015-0642
Permits Valid from 07/27/2015 to 07/27/2015

Application Id:	1437076108754	**City of Project Site:**	Oakland
Site Location:	357-359 105th Street		
Project Start Date:	07/27/2015	**Completion Date:**	07/27/2015
Assigned Inspector:	Contact Lindsay Furuyama at (925) 956-2311 or Lfuruyama@groundzonees.com		
Applicant:	Environmental Restoration Services - Ben Halsted PO Box 2006, Menlo park, CA 94026	**Phone:**	408-655-9434
Property Owner:	Dan Neishi 1564 Darius Ct., San leandro, CA, CA 94577	**Phone:**	510-909-2112
Client:	** same as Property Owner **		
Contact:	Ben Halsted	**Phone:** **Cell:**	-- 408-655-9434

	Total Due:	$265.00
Receipt Number: WR2015-0359	**Total Amount Paid:**	$265.00
Payer Name : Bennett T Halsted	Paid By: VISA	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 10 Boreholes
Driller: Environmental Restoration Services - Lic #: 589652 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2015-0642	07/22/2015	10/25/2015	10	2.00 in.	12.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no

case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

7. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX C

Boring Logs

FIELD LOCATION OF BORING:

PROJECT: No. 1076C | DATES DRILLED: 9/18/15

CLIENT: Neishi Bros. Nursery | DRILLER: ERS (C-57 #589652)

SITE ADDRESS: 357 105th Ave., Oakland, CA | LOGGED BY: Forrest Cook PG#8201

DRILLING METHOD AND EQUIPMENT: Geoprobe w/macro core sampler

WATER LEVEL		TIME	
1st Encountered	10.5'	Start	
Static	3.90'	Finish	

Depth (Feet)	Sample	Sample ID	Blow Count	PID (ppm)	Well Const.	Lithology	USCS	SOIL DESCRIPTION
0					Backfilled with neat cement			2" Ashpalt
1–4							CL	SILTY CLAY (CL): Black (GLEY 1 2.5/N), estimated damp, estimated soft to firm, estimated medium plasticity. Very expansive.
3								Static water = 3.90'
5	■	DP-1d5.0						Increased moisture content with depth.
7								Gradational color change to Dark Gray (5Y4/1).
10	■	DP-1d10.0						First encountered water = 10.50'
11							SC	CLAYEY SAND (SC): Dark grayish brown (2.5Y3/2). Wet, estimated loose, sand is fine, well graded.
12								BOH = 12'
13–25								

WELL / BORING CONSTRUCTION DETAILS:

Backfilled with neat cement (Portland I/II)

ALMAR environmental

357 105th AVE.
OAKLAND, CALIFORNIA

BORING LOG

BORING

DP-1

FIELD LOCATION OF BORING:

PROJECT: No. 1076C | DATES DRILLED: 9/18/15

CLIENT: Neishi Bros. Nursery | DRILLER: ERS (C-57 #589652)

SITE ADDRESS: 357 105th Ave., Oakland, CA | LOGGED BY: Forrest Cook PG#8201

PAGE 1 OF 1

DRILLING METHOD AND EQUIPMENT: Geoprobe w/macro core sampler

WATER LEVEL		TIME	
1st Encountered	10.0'	Start	
Static	8.75'	Finish	

Depth (Feet)	Sample	Sample ID	Blow Count	PID (ppm)	Well Const.	Lithology	USCS
1–25		DP-2d5.0			Backfilled with neat cement		CL
		DP-2d10.0					

SOIL DESCRIPTION

3" Slab on grade concrete, plus baserock.

SILTY CLAY (CL): Black (GLEY 1 2.5/N), estimated damp, estimated soft to firm, estimated medium plasticity. Very expansive.

Static water = 3.90'

Increased moisture content with depth.

First encountered water = 10.0'

Touched into a CLAYEY SAND (SC): Very dark greenish gray (GLEY 1 6/1)). Wet, estimated loose, sand is fine, well graded.

BOH = 10'

WELL / BORING CONSTRUCTION DETAILS:

Backfilled with neat cement (Portland I/II)

ALMAR environmental

357 105th AVE.
OAKLAND, CALIFORNIA

BORING LOG

BORING

DP-2

FIELD LOCATION OF BORING:

PROJECT: No. 1076C | DATES DRILLED: 9/18/15

CLIENT: Neishi Bros. Nursery | DRILLER: ERS (C-57 #589652)

SITE ADDRESS: 357 105th Ave., Oakland, CA | LOGGED BY: Forrest Cook PG#8201

DRILLING METHOD AND EQUIPMENT: Geoprobe w/macro core sampler

WATER LEVEL		TIME	
1st Encountered	10.5'	Start	
Static	9.0'	Finish	

Depth (Feet)	Sample	Sample ID	Blow Count	PID (ppm)	Well Const.	Lithology	USCS	SOIL DESCRIPTION
1					Backfilled with neat cement			2" Asphalt.
2								
3							CL	SILTY CLAY (CL): Black (GLEY 1 2.5/N), estimated damp, estimated soft to firm, estimated medium plasticity. Very expansive.
4								
5	■	DP-3d5.0						Increased moisture content with depth.
6								
7								
8								
9								Static water = 9.0'
10	■	DP-3d10.0						First encountered water = 10.5'
11								CLAYEY SAND (SC): Dark greenish brown (2.5Y3/2). Wet, estimated loose, sand is fine, well graded. BOH = 11'
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

WELL / BORING CONSTRUCTION DETAILS:

Backfilled with neat cement (Portland I/II)

ALMAR environmental

357 105th AVE.
OAKLAND, CALIFORNIA

BORING LOG

BORING

DP-3

FIELD LOCATION OF BORING:

PROJECT: No. 1076C | DATES DRILLED: 9/18/15

CLIENT: Neishi Bros. Nursery | DRILLER: ERS (C-57 #589652)

SITE ADDRESS: 357 105th Ave., Oakland, CA | LOGGED BY: Forrest Cook PG#8201

PAGE 1 OF 1

DRILLING METHOD AND EQUIPMENT: Geoprobe w/macro core sampler

WATER LEVEL		TIME	
1st Encountered	11.0'	Start	
Static	8.27'	Finish	

Depth (Feet)	Sample	Sample ID	Blow Count	PID (ppm)	Well Const.	Lithology	USCS	SOIL DESCRIPTION
0					Backfilled with neat cement			2" Ashpalt
1–4							CL	SILTY CLAY (CL): Black (GLEY 1 2.5/N), estimated damp, estimated soft to firm, estimated medium plasticity. Very expansive.
5	■	DP-4d5.0						Increased moisture content with depth.
6–7								
8								Static water = 8.27'
9								
10	■	DP-4d10.0						Dark greenish gray discoloration. Hydrocarbon odor.
11								First encountered water = 11.0'
12							SW	CLAYEY GRAVELLY SAND (SW): Very dark greenish gray. Wet, estimated loose. Slight odor.
								BOH = 12'
13–25								

WELL / BORING CONSTRUCTION DETAILS:

Backfilled with neat cement (Portland I/II)

ALMAR environmental

357 105th AVE.
OAKLAND, CALIFORNIA

BORING LOG

BORING

DP-4

FIELD LOCATION OF BORING:

PROJECT: No. 1076C | DATES DRILLED: 9/18/15

CLIENT: Neishi Bros. Nursery | DRILLER: ERS (C-57 #589652)

SITE ADDRESS: 357 105th Ave., Oakland, CA | LOGGED BY: Forrest Cook PG#8201

DRILLING METHOD AND EQUIPMENT: Geoprobe w/macro core sampler

WATER LEVEL		TIME	
1st Encountered	13.0'	Start	
Static	11.0'	Finish	

Depth (Feet)	Sample	Sample ID	Blow Count	PID (ppm)	Well Const.	Lithology	USCS	SOIL DESCRIPTION
1					Backfilled with neat cement			2" Ashpalt
2								
3							CL	SILTY CLAY (CL): Black (GLEY 1 2.5/N), estimated damp, estimated soft to firm, estimated medium plasticity. Very expansive.
4								
5	■	DP-5d5.0						Increased moisture content with depth.
6								
7								
8								
9								
10	■	DP-5d10.0						Gradational color change to Greenish Black (GLEY 1 2.5/1)
11								Static water = 11.0'
12								
13								First encountered water = 13.0'
14								BOH = 13'
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

WELL / BORING CONSTRUCTION DETAILS:

Backfilled with neat cement (Portland I/II)

ALMAR environmental

357 105th AVE.
OAKLAND, CALIFORNIA

BORING LOG

BORING

DP-5

FIELD LOCATION OF BORING:

PROJECT: No. 1076C | DATES DRILLED: 9/18/15

CLIENT: Neishi Bros. Nursery | DRILLER: ERS (C-57 #589652)

SITE ADDRESS: 357 105th Ave., Oakland, CA | LOGGED BY: Forrest Cook PG#8201

PAGE 1 OF 1

DRILLING METHOD AND EQUIPMENT: Geoprobe w/macro core sampler

WATER LEVEL		TIME	
1st Encountered	13.0'	Start	
Static	11.0'	Finish	

Depth (Feet)	Sample	Sample ID	Blow Count	PID (ppm)	Well Const.	Lithology	USCS	SOIL DESCRIPTION
1					Backfilled with neat cement			2" Ashpalt
2								
3							CL	SILTY CLAY (CL): Black (GLEY 1 2.5/N), estimated damp, estimated soft to firm, estimated medium plasticity. Very expansive.
4								
5		DP-6d5.0						Increased moisture content with depth.
6								
7								
8								
9								Gradational color change to Greenish Black (GLEY 1 2.5/1)
10		DP-6d10.0						Static water = 10.0'
11								
12								First encountered water = 12.0'
								BOH = 12'
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

WELL / BORING CONSTRUCTION DETAILS:

Backfilled with neat cement (Portland I/II)

ALMAR environmental

357 105th AVE.
OAKLAND, CALIFORNIA

BORING LOG

BORING

DP-6

FIELD LOCATION OF BORING:

PROJECT: No. 1076C | DATES DRILLED: 9/18/15

CLIENT: Neishi Bros. Nursery | DRILLER: ERS (C-57 #589652)

SITE ADDRESS: 357 105th Ave., Oakland, CA | LOGGED BY: Forrest Cook PG#8201

PAGE 1 OF 1

DRILLING METHOD AND EQUIPMENT: Geoprobe w/macro core sampler

WATER LEVEL		TIME	
1st Encountered	12.0'	Start	
Static	11.0'	Finish	

Depth (Feet)	Sample	Sample ID	Blow Count	PID (ppm)	Well Const.	Lithology	USCS	SOIL DESCRIPTION
1					Backfilled with neat cement			2" Ashpalt
2								
3							CL	SILTY CLAY (CL): Black (GLEY 1 2.5/N), estimated damp, estimated soft to firm, estimated medium plasticity. Very expansive.
4								
5		DP-7d5.0						Increased moisture content with depth.
6								
7								
8								
9								Gradational color change to Greenish Black (GLEY 1 2.5/1)
10		DP-7d10.0						Static water = 10.0'
11								
12								First encountered water = 12.0'
								BOH = 12'
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

WELL / BORING CONSTRUCTION DETAILS:

Backfilled with neat cement (Portland I/II)

ALMAR environmental

357 105th AVE.
OAKLAND, CALIFORNIA

BORING LOG

BORING

DP-7

FIELD LOCATION OF BORING:

PROJECT: No. 1076C | DATES DRILLED: 9/18/15

CLIENT: Neishi Bros. Nursery | DRILLER: ERS (C-57 #589652)

SITE ADDRESS: 357 105th Ave., Oakland, CA | LOGGED BY: Forrest Cook PG#8201

PAGE 1 OF 1

DRILLING METHOD AND EQUIPMENT: Geoprobe w/macro core sampler

WATER LEVEL		TIME	
1st Encountered	12.0'	Start	
Static	11.0'	Finish	

Depth (Feet)	Sample	Sample ID	Blow Count	PID (ppm)	Well Const.	Lithology	USCS	SOIL DESCRIPTION
1					Backfilled with neat cement			2" Ashpalt
2								
3							CL	SILTY CLAY (CL): Black (GLEY 1 2.5/N), estimated damp, estimated soft to firm, estimated medium plasticity. Very expansive.
4								
5		DP-8d5.0						Increased moisture content with depth.
6								
7								
8								
9								Gradational color change to Greenish Black (GLEY 1 2.5/1)
10		DP-8d10.0						Static water = 10.0'
11								
12								First encountered water = 12.0'
								BOH = 12'
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

WELL / BORING CONSTRUCTION DETAILS:

Backfilled with neat cement (Portland I/II)

ALMAR environmental

357 105th AVE.
OAKLAND, CALIFORNIA

BORING LOG

BORING

DP-8

FIELD LOCATION OF BORING:

PROJECT: No. 1076C

DATES DRILLED: 9/18/15

CLIENT: Neishi Bros. Nursery

DRILLER: ERS (C-57 #589652)

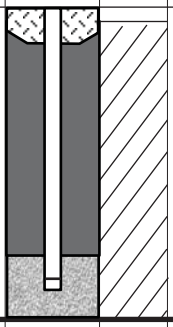
SITE ADDRESS: 357 105th Ave., Oakland, CA

PAGE 1 OF 1

LOGGED BY: Forrest Cook PG#8201

DRILLING METHOD AND EQUIPMENT: Geoprobe w/macro core sampler

WATER LEVEL		TIME	
1st Encountered	NA	Start	
Static	NA	Finish	

Depth (Feet)	Sample	Sample ID	Blow Count	PID (ppm)	Well Const.	Lithology	USCS	SOIL DESCRIPTION
1–5							CL	2” Ashpalt SILTY CLAY (CL): Black (GLEY 1 2.5/N), estimated damp, estimated soft to firm, estimated medium plasticity. Very expansive.
6–25								BOH = 5.5’

WELL / BORING CONSTRUCTION DETAILS:

Backfilled with neat cement (Portland I/II)

ALMAR environmental

357 105th AVE.
OAKLAND, CALIFORNIA

BORING LOG

BORING

SG-1

FIELD LOCATION OF BORING:

PROJECT: No. 1076C

DATES DRILLED: 9/18/15

CLIENT: Neishi Bros. Nursery

DRILLER: ERS (C-57 #589652)

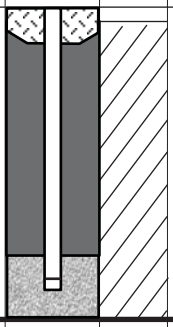
SITE ADDRESS: 357 105th Ave., Oakland, CA

PAGE 1 OF 1

LOGGED BY: Forrest Cook PG#8201

DRILLING METHOD AND EQUIPMENT: Geoprobe w/macro core sampler

WATER LEVEL		TIME	
1st Encountered	NA	Start	
Static	NA	Finish	

Depth (Feet)	Sample	Sample ID	Blow Count	PID (ppm)	Well Const.	Lithology	USCS	SOIL DESCRIPTION
1–5							CL	2” Ashpalt SILTY CLAY (CL): Black (GLEY 1 2.5/N), estimated damp, estimated soft to firm, estimated medium plasticity. Very expansive.
6–25								BOH = 5.5’

WELL / BORING CONSTRUCTION DETAILS:

Backfilled with neat cement (Portland I/II)

ALMAR environmental

357 105th AVE.
OAKLAND, CALIFORNIA

BORING LOG

BORING

SG-2

FIELD LOCATION OF BORING:

PROJECT: No. 1076C

DATES DRILLED: 9/18/15

CLIENT: Neishi Bros. Nursery

DRILLER: ERS (C-57 #589652)

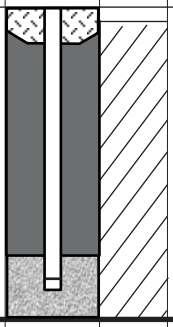
SITE ADDRESS: 357 105th Ave., Oakland, CA

PAGE 1 OF 1

LOGGED BY: Forrest Cook PG#8201

DRILLING METHOD AND EQUIPMENT: Geoprobe w/macro core sampler

WATER LEVEL		TIME	
1st Encountered	NA	Start	
Static	NA	Finish	

Depth (Feet)	Sample	Sample ID	Blow Count	PID (ppm)	Well Const.	Lithology	USCS	SOIL DESCRIPTION
1–5							CL	2” Ashpalt SILTY CLAY (CL): Black (GLEY 1 2.5/N), estimated damp, estimated soft to firm, estimated medium plasticity. Very expansive.
6–25								BOH = 5.5’

WELL / BORING CONSTRUCTION DETAILS:

Backfilled with neat cement (Portland I/II)

ALMAR environmental

357 105th AVE.
OAKLAND, CALIFORNIA

BORING LOG

BORING

SG-3

FIELD LOCATION OF BORING:

PROJECT: No. 1076C

DATES DRILLED: 9/18/15

CLIENT: Neishi Bros. Nursery

DRILLER: ERS (C-57 #589652)

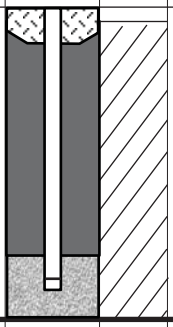
SITE ADDRESS: 357 105th Ave., Oakland, CA

PAGE 1 OF 1

LOGGED BY: Forrest Cook PG#8201

DRILLING METHOD AND EQUIPMENT: Geoprobe w/macro core sampler

WATER LEVEL		TIME	
1st Encountered	NA	Start	
Static	NA	Finish	

Depth (Feet)	Sample	Sample ID	Blow Count	PID (ppm)	Well Const.	Lithology	USCS	SOIL DESCRIPTION
1–5							CL	2” Ashpalt SILTY CLAY (CL): Black (GLEY 1 2.5/N), estimated damp, estimated soft to firm, estimated medium plasticity. Very expansive.
6–25								BOH = 5.5’

WELL / BORING CONSTRUCTION DETAILS:

Backfilled with neat cement (Portland I/II)

ALMAR environmental

357 105th AVE.
OAKLAND, CALIFORNIA

BORING LOG

BORING

SG-4

APPENDIX D

Soil Gas Purge and Sampling Records

ALMAR environmental

Soil Vapor Well Purging and Sampling Form

Well No. SG-1

Project Name Neishi Bros.	Project No. 1076C	Date 5-21-15
Project Address, City, County 357 105th Ave, Oakland, CA		

PURGING AND SAMPLING INSTRUMENTATION AND METHOD

Water Level Meter (Model/ID)		Interface probe (Model/ID)		
Water Quality Meter (Model/ID)		Decontamination Method		
Purging Method(s)	X Summa	Vacuum Truck	Submersible Pump	Other
Sampling Method(s)	X Summa Canister	Disposal Bailer	Other	

BOREHOLE AND WELL CASING VOLUME INFORMATION

Borehole Diameter (Circle)	2"	6"	8"	Casing Diameter (Circle)	3/16"
				Casing Multiplier (CM) (mL/foot)	5.42

MONITORING MEASUREMENTS

Depth to Free Product (feet)	—
Depth to Water (DTW) (feet)	—
Total Well Depth (WD) (feet)	5.0'
Water Column (WC) (feet)	—
Free Product Thickness (feet)	—

PURGING CALCULATORS

Casing Volume (CV)

_____ WD x CM _____ _____ CV (mL) x 3.0 CV (mL) _____

purge = 150 mL/min

Free Product Purged (gal)

PURGING DATA

Time (24 hr)	10:44	10:45	10:46	10:47	10:48				
mL Purged	0	150	300	450	600				
He Meter in	31.8	34.4	36.0	36.8	35.6				
" out	-00.8	00.0	0.00	00.0	00.0				
Time	10:48	10:56	11:01	11:07	11:13	11:20			
He in	32.9	24.2	17.5	26.2	27.7	16.3			
H_2S =	-30	-25	-20	-15	-10	-5			
				Sample Time		11:25			
Other				Canister #		262			
Other				Manifold #		A00185			

SAMPLING DATA

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

FIELD PERSONNEL

Field Technician Representative(s):	Subcontractor:
Signature	Date:

ALMAR environmental

Soil Vapor Well Purging and Sampling Form

Well No. SG-2

Project Name Neishi Bros.	Project No. 1076C	Date 9-21-15
Project Address, City, County 357 105th Ave & Oakland, CA		

PURGING AND SAMPLING INSTRUMENTATION AND METHOD

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) X Summa ____ Vacuum Truck ____ Submersible Pump ____ Other	
Sampling Method(s) X Summa Canister ____ Disposal Bailer ____ Other	

BOREHOLE AND WELL CASING VOLUME INFORMATION

Borehole Diameter (Circle) (2") 6" 8"	Casing Diameter (Circle) (3/16")
	Casing Multiplier (CM) (mL/foot) (5.42)

MONITORING MEASUREMENTS

Depth to Free Product (feet) —	
Depth to Water (DTW) (feet) —	
Total Well Depth (WD) (feet) 5.0	
Water Column (WC) (feet) —	
Free Product Thickness (feet) —	

PURGING CALCULATORS

Casing Volume (CV)

____ WD x CM ____ ____ CV (mL) x 3.0 CV (mL) ____

Purge = 150 mL/min

Free Product Purged (gal)

PURGING DATA

Time (24 hr)	12:03	12:04	12:05	12:06	12:07				
mL Purged	0	150	300	450	600				
He Meter in	44.8	43.5	42.1	40.3	38.4				
out	-00.5	-00.6	-00.7	-00.7	-00.7				
Sample Time	12:07	12:12	12:16	12:20	12:25	12:30			
He in H_2 =	38.4	25.3	22.4	21.3	34.2				
	-30	-25	-20	-15	-10	-5			
					Sample Time	12:30			
Other					Canister #	30			
Other					Manifold #	A00002			

SAMPLING DATA

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

FIELD PERSONNEL

Field Technician Representative(s):	Subcontractor:
Signature	Date:

ALMAR environmental

Soil Vapor Well Purging and Sampling Form

Well No. SG-3

Project Name Neiti Bros	Project No. 1076C	Date 9-21-15
Project Address, City, County 357 105th Ave, Oakland, CA		

PURGING AND SAMPLING INSTRUMENTATION AND METHOD

Water Level Meter (Model/ID)	–	Interface probe (Model/ID)			
Water Quality Meter (Model/ID)	–	Decontamination Method			
Purging Method(s)	X Summa	Vacuum Truck	Submersible Pump	Other	
Sampling Method(s)	X Summa Canister	Disposal Bailer	Other		

BOREHOLE AND WELL CASING VOLUME INFORMATION

Borehole Diameter (Circle)	(2")	6"	8"	Casing Diameter (Circle)	(3/16")
				Casing Multiplier (CM) (mL/foot)	5.42

MONITORING MEASUREMENTS

Depth to Free Product (feet)	–
Depth to Water (DTW) (feet)	–
Total Well Depth (WD) (feet)	5.0
Water Column (WC) (feet)	–
Free Product Thickness (feet)	–

PURGING CALCULATORS

Casing Volume (CV)

_____ WD x CM _____ _____ CV (mL) x 3.0 CV (mL) _____

purge = 150 mL/min

Free Product Purged (gal)

PURGING DATA

Time (24 hr)	12:37	12:38	12:39	12:40	12:41				
mL Purged	0	150	300	450	600				
He Meter in	37.4	40.9	42.1	35.2	37.9				
out	-00.8	-01.6	-01.5	-01.5	-01.5				
Sample Time	12:41	12:42	12:43	12:44	12:45	12:47			
He in	37.9	33.3	32.3	31.3	29.1	26.0			
H_2S	-30	-25	-20	-15	-10	-5			
					Sample Time	12:48			
Other					Canister #	257			
Other					Manifold #	A00029			

SAMPLING DATA

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

FIELD PERSONNEL

Field Technician Representative(s):	Subcontractor:
Signature	Date:

ALMAR environmental

Soil Vapor Well Purging and Sampling Form

Well No. SG-4

Project Name Noishi Bros.	Project No. 1076C	Date 5-21-15
Project Address, City, County		

PURGING AND SAMPLING INSTRUMENTATION AND METHOD

Water Level Meter (Model/ID)		Interface probe (Model/ID)		
Water Quality Meter (Model/ID)		Decontamination Method		
Purging Method(s)	X Summa	Vacuum Truck	Submersible Pump	Other
Sampling Method(s)	X Summa Canister	Disposal Bailer	Other	

BOREHOLE AND WELL CASING VOLUME INFORMATION

Borehole Diameter (Circle)	(2")	6"	8"	Casing Diameter (Circle) 3/16"
				Casing Multiplier (CM) (mL/foot) 5.42

MONITORING MEASUREMENTS

Depth to Free Product (feet)	—
Depth to Water (DTW) (feet)	—
Total Well Depth (WD) (feet)	5.0
Water Column (WC) (feet)	—
Free Product Thickness (feet)	—

PURGING CALCULATORS

Casing Volume (CV)

_____ WD x CM _____ _____ CV (mL) x 3.0 CV (mL) _____

150 mL/min

Free Product Purged (gal)

PURGING DATA

Time (24 hr)	11:34	11:35	11:36	11:37	11:38				
mL Purged	0	150	300	450	600				
He Meter in	38.1	38.6	37.9	35.7	34.4				
out	-00.4	-00.3	-00.3	-00.3					
Sample									
Time	11:38		11:43	11:47	11:48				
He in	34.4		25.4	21.4	25.8				
Hg"	-25	-20	-15	-10	-5				
					Sample Time	11:50			
Other					Canister #	337			
Other					Manifold #	A00040			

SAMPLING DATA

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

FIELD PERSONNEL

Field Technician Representative(s):	Subcontractor:
Signature	Date:

APPENDIX E

Lab Data Sheets: Soil and Groundwater

Date of Report: 10/16/2015

Forrest Cook

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Client Project:	357 105th Ave
BCL Project:	Soils/Waters
BCL Work Order:	1524165
Invoice ID:	B215572

Enclosed are the results of analyses for samples received by the laboratory on 9/22/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval
Client Service Rep

Authorized Signature

Table of Contents

Table of Contents

~~1of1~~ ~~3~~ 1of3

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

* Required Fields

TEMP: 15-24165

Client/Company Name *:	Report Attention *:	Phone * #: 831-420-7923 FAX * #:
Almar Environmental	Forrest Cook	E-mail: cook.forrest@gmail.com

Address *: 407 Almar Ave. City *: Santa Cruz State *: CA Zip *: 95060

Project Information: 357 105th Ave PO # 1076C BCL Quote #

How would you like your completed results sent? [X] E-Mail [ ] Fax [ ] EDD [ ] Mail Only

Sampler Name Printed / Signature: Forrest Cook / [signature]

QC Request: [ ] STD [ ] Level II

Result Request ** Surcharge: [ ] STD [ ] 5 Day** [ ] 2 Day** [ ] 1 Day**

Carbon Copies: CDHS [ ] Fresno Co [ ] EPA [ ] Merced Co [ ] Tulare Co [ ] Other:

Regulatory Compliance Electronic Data Transfer: Y [X] N [X] System No. *: EDF

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	TPHg + TPHd by 8015	BTEX, MTBE, Napth by 8260							
-1		9-18-15	8:55	DP-1d 5.0	soil		X	X							
-2		↓	9:20	DP-1d 10.0	↓		X	X							
-3			10:10	DP-2d 5.0			X	X							
-4			10:20	DP-2d 10.0			X	X							
-5			9:40	DP-3d 5.0			X	X							
-6			9:50	DP-3d 10.0			X	X							
-7			11:10	DP-4d 5.0			X	X							
-8			11:20	DP-4d 10.0			X	X							
-9			12:50	DP-5d 5.0			X	X							
-10			12:55	DP-5d 10.0			X	X							

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
[signature]	Almar Env	9/21/15	14:50	[signature] P.BINS	BCL 9/21/15 1450
[signature] P.BINS	BCL	9/22/15	1401	Gary Bogan	BcLab 9-22-15 1401
Received for Lab by: (Signature and Printed Name) REL Gary Bogan 9-22-15 1830		9/22/15	2130	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

REC. [initials] 9/22/15 18:30

[signature] 9-22-15 2130

REL. [initials] 9/22/15

SR-FL-0012-00 (Analytical)

~~2 of 6~~ 1 of 5
JDL
92215

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

TEMP: 15-24165

* Required Fields

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #:
Almar Environmental	Forrest Cook	831-420-7923	
		E-mail: cook.forrest@gmail.com	

Address *	City *	State *	Zip *
407 Almar Ave.	Santa Cruz	CA	95060

Project Information: 357 105th Ave
PO # 10762
BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: Forrest Cook

QC Request: ☐ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance Electronic Data Transfer: (Y) N
System No. *: EDF

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	TPH by 8015	BTEX, MTBE, Naphthalene by 8260B						
-11		9-18-15	14:20	DP-6d5.0	soil		X	X						
-12			14:35	DP-6d10.0			X	X						
-13			15:00	DP-7d5.0			X	X						
-14			15:15	DP-7d10.0			X	X						
-15			13:40	DP-8d5.0			X	X						
-16			13:50	DP-8d10.0			X	X						

CHK BY DISTRIBUTION
UNUSUAL
SUB-OUT ☐

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Print Name)	Company
	Almar Env	9/21/15	14:50		BCLABS 9/21/14850
Relinquished by: (Signature and Printed Name) P. BINS	Company BCL	Date 9/22/15	Time 1401	Received by: (Signature and Print Name) Mary Bogan	Company BC Lab 9-21-15 1401
Received for Lab by: (Signature and Printed Name) REC Mary Bogan		Date 9-22-15	Time 1830	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

REC. GSO 9/22/15 18:30

REC. GSO 9/22/15 1830

9-22-15 1830

SR-FL-0012-00 (Analytical)

~~3 of 7~~ 3 of 3
92315

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

* Required Fields

TEMP: 15-24165

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #:
Almar Environmental	Forrest Cook	831-420-7923	
		E-mail: cook.forrest@gmail.com	

Address *	City *	State *	Zip *
407 Almar Ave.	Santa Cruz	CA	95060

Project Information: 357 105th Ave
PO # 10760
BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature

QC Request: ☐ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance Electronic Data Transfer: (Y) (N)
System No. * EDF

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	TPH + TPHd by 8015	BTEX, MTBE, Naph by 8260b						
-17		9-18-15	14:00	DP-1	GW		X	X						
-18			14:30	DP-2			X	X						
-19			14:50	DP-3			X	X						
-20			16:00	DP-4			X	X						
-21			15:40	DP-5			X	X						
-22			16:10	DP-6			X	X						
-23			16:15	DP-7			X	X						
-24			16:30	DP-8			X	X						

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Print Name)	Company
PBINS	Almar	9/21/15	1450	PBINS	BCL 9/21/15 1450
PBINS	BCL	9/22/15	1401	Mary Boyer	BC Labs 9-22-15 1401
Received for Lab by: (Signature and Printed Name) REL Mary Boyer 9-22-15 1830		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

REC. GSO 9/22/15 18:30

REL. GSO 9/22/15 2130 9-22-15 2130

SR-FL-0012-00 (Analytical)

Chain of Custody and Cooler Receipt Form for 1524165 Page 4 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 3

Submission #: 15-24165

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208

Temperature: (A) 0.3 °C / (C) 0.2 °C

Date/Time 9/22/15 2021

Analyst Init KJB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr+6										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
0 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
0ml EPA 547										
0ml EPA 531.1										
oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
oz / 16oz / 32oz AMBER										
oz / 16oz / 32oz JAR										
OIL SLEEVE X02	A	A	A	A	A	A	A	A	A	A
VOB VIAL										
PLASTIC BAG										
KEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: JDL Date/Time: 9/23/15 0745 Rev 20 07/24/2015

A = Actual / C = Corrected

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

Chain of Custody and Cooler Receipt Form for 1524165 Page 5 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 7 Of

Submission #: 15-24165

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☐ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 9/23/15

Temperature: (A) 0.3 °C / (C) 0.2 °C Analyst Init KJB 201

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL 096							ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
4oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
4oz / 16oz / 32oz AMBER X36										
4oz / 16oz / 32oz JAR										
SOIL SLEEVE X02	A	A	A	A	A	A	D	D	D	D
VOB VIAL										
PLASTIC BAG										
SCHOLAR BAG										
FERROUS IRON										
SCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: JDL Date/Time: 9/23/15 0745 Rev 20 07/24/2015

A = Actual / C = Corrected [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

Chain of Custody and Cooler Receipt Form for 1524165 Page 6 of 6

BC LABORATORIES INC. — COOLER RECEIPT FORM — Page 3 Of 3

Submission #: 15-24165

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☐ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 9/23/15

Temperature: (A) 0.3 °C / (C) 0.2 °C Analyst Init KJB 221

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL 096	ABC	ABC	ABC	ABC						
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER X32	D	D	D	D						
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: JDL Date/Time: 9/23/15 0745 Rev 20 07/24/2015
A = Actual / C = Corrected
[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1524165-01	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 08:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-1d5.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-1d5.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1524165-02	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 09:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-1d10.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-1d10.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1524165-03	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 10:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-2d5.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-2d5.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1524165-04	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 10:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-2d10.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-2d10.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1524165-05	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 09:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-3d5.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-3d5.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1524165-06	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 09:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-3d10.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-3d10.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1524165-07	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 11:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-4d5.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-4d5.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1524165-08	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 11:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-4d10.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-4d10.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1524165-09	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 12:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-5d5.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-5d5.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1524165-10	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 12:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-5d10.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-5d10.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1524165-11	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 14:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-6d5.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-6d5.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1524165-12	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 14:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-6d10.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-6d10.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1524165-13	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 15:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-7d5.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-7d5.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1524165-14	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 15:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-7d10.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-7d10.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1524165-15	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 13:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-8d5.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-8d5.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1524165-16	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 13:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-8d10.0	**Lab Matrix:**	Solids
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-8d10.0	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1524165-17	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 14:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-1	**Lab Matrix:**	Water
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Groundwater
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1524165-18	**COC Number:**	---	**Receive Date:**	09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:**	09/18/2015 14:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DP-2	**Lab Matrix:**	Water
	Sampled By:	Forrest Cook of ALSC	**Sample Type:**	Groundwater
			Delivery Work Order:	
			Global ID: T10000006426	
			Location ID (FieldPoint): DP-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1524165-19	**COC Number:**	---	**Receive Date:** 09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:** 09/18/2015 14:50
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	DP-3	**Lab Matrix:** Water
	Sampled By:	Forrest Cook of ALSC	**Sample Type:** Groundwater
			Delivery Work Order:
			Global ID: T10000006426
			Location ID (FieldPoint): DP-3
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1524165-20	**COC Number:**	---	**Receive Date:** 09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:** 09/18/2015 16:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	DP-4	**Lab Matrix:** Water
	Sampled By:	Forrest Cook of ALSC	**Sample Type:** Groundwater
			Delivery Work Order:
			Global ID: T10000006426
			Location ID (FieldPoint): DP-4
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1524165-21	**COC Number:**	---	**Receive Date:** 09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:** 09/18/2015 15:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	DP-5	**Lab Matrix:** Water
	Sampled By:	Forrest Cook of ALSC	**Sample Type:** Groundwater
			Delivery Work Order:
			Global ID: T10000006426
			Location ID (FieldPoint): DP-5
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1524165-22	**COC Number:**	---	**Receive Date:** 09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:** 09/18/2015 16:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	DP-6	**Lab Matrix:** Water
	Sampled By:	Forrest Cook of ALSC	**Sample Type:** Groundwater
			Delivery Work Order:
			Global ID: T10000006426
			Location ID (FieldPoint): DP-6
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1524165-23	**COC Number:**	---	**Receive Date:** 09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:** 09/18/2015 16:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	DP-7	**Lab Matrix:** Water
	Sampled By:	Forrest Cook of ALSC	**Sample Type:** Groundwater
			Delivery Work Order:
			Global ID: T10000006426
			Location ID (FieldPoint): DP-7
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1524165-24	**COC Number:**	---	**Receive Date:** 09/22/2015 21:30
	Project Number:	Neishi Brothers Nursery	**Sampling Date:** 09/18/2015 16:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	DP-8	**Lab Matrix:** Water
	Sampled By:	Forrest Cook of ALSC	**Sample Type:** Groundwater
			Delivery Work Order:
			Global ID: T10000006426
			Location ID (FieldPoint): DP-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-01 | **Client Sample Name:** Neishi Brothers Nursery, DP-1d5.0, 9/18/2015 8:55:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 18:41	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-01 | **Client Sample Name:** Neishi Brothers Nursery, DP-1d5.0, 9/18/2015 8:55:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	61.8	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/01/15 18:53	MWB	GC-2	0.987	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-02 | **Client Sample Name:** Neishi Brothers Nursery, DP-1d10.0, 9/18/2015 9:20:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.1	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 19:04	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-02 | **Client Sample Name:** Neishi Brothers Nursery, DP-1d10.0, 9/18/2015 9:20:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	53.8	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/01/15 19:16	MWB	GC-2	1	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-03 | **Client Sample Name:** Neishi Brothers Nursery, DP-2d5.0, 9/18/2015 10:10:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	105	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 19:27	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-03 | **Client Sample Name:** Neishi Brothers Nursery, DP-2d5.0, 9/18/2015 10:10:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	52.8	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/01/15 19:38	MWB	GC-2	0.993	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-04 | **Client Sample Name:** Neishi Brothers Nursery, DP-2d10.0, 9/18/2015 10:20:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	**0.016**	**mg/kg**	**0.010**		**EPA-8260B**	ND		1
p- & m-Xylenes	**0.013**	**mg/kg**	**0.0050**		**EPA-8260B**	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 19:51	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-04 | **Client Sample Name:** Neishi Brothers Nursery, DP-2d10.0, 9/18/2015 10:20:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND	A52	1
Tetracosane (Surrogate)	50.9	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/01/15 20:01	MWB	GC-2	0.993	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-05 | **Client Sample Name:** Neishi Brothers Nursery, DP-3d5.0, 9/18/2015 9:40:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.7	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 20:14	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-05 | **Client Sample Name:** Neishi Brothers Nursery, DP-3d5.0, 9/18/2015 9:40:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND	A52	1
Tetracosane (Surrogate)	57.2	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/01/15 20:23	MWB	GC-2	1.007	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-06 | **Client Sample Name:** Neishi Brothers Nursery, DP-3d10.0, 9/18/2015 9:50:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	107	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 20:37	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-06 | **Client Sample Name:** Neishi Brothers Nursery, DP-3d10.0, 9/18/2015 9:50:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND	A52	1
Tetracosane (Surrogate)	45.3	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/01/15 20:46	MWB	GC-2	0.997	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-07 | **Client Sample Name:** Neishi Brothers Nursery, DP-4d5.0, 9/18/2015 11:10:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	**0.072**	**mg/kg**	**0.0050**		**EPA-8260B**	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.3	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.5	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 21:00	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-07 | **Client Sample Name:** Neishi Brothers Nursery, DP-4d5.0, 9/18/2015 11:10:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	44.3	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/01/15 22:15	MWB	GC-2	1.014	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-08 | **Client Sample Name:** Neishi Brothers Nursery, DP-4d10.0, 9/18/2015 11:20:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**0.079**	**mg/kg**	**0.0050**		**EPA-8260B**	ND		1
Ethylbenzene	**1.7**	**mg/kg**	**0.12**		**EPA-8260B**	ND	**A01**	2
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	**1.3**	**mg/kg**	**0.025**		**EPA-8260B**	ND	**A01**	3
Toluene	**1.6**	**mg/kg**	**0.025**		**EPA-8260B**	ND	**A01**	3
Total Xylenes	**8.2**	**mg/kg**	**0.25**		**EPA-8260B**	ND	**A01**	2
p- & m-Xylenes	**6.2**	**mg/kg**	**0.12**		**EPA-8260B**	ND	**A01**	2
o-Xylene	**2.0**	**mg/kg**	**0.12**		**EPA-8260B**	ND	**A01**	2
1,2-Dichloroethane-d4 (Surrogate)	93.5	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	98.7	%	70 - 121 (LCL - UCL)		EPA-8260B			2
1,2-Dichloroethane-d4 (Surrogate)	91.4	%	70 - 121 (LCL - UCL)		EPA-8260B			3
Toluene-d8 (Surrogate)	109	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	111	%	81 - 117 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	104	%	81 - 117 (LCL - UCL)		EPA-8260B			3
4-Bromofluorobenzene (Surrogate)	98.4	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	97.9	%	74 - 121 (LCL - UCL)		EPA-8260B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 21:23	JPT	MS-V3	1	BYI2284
2	EPA-8260B	09/24/15	09/28/15 12:19	ADC	MS-V3	25	BYI2284
3	EPA-8260B	09/24/15	09/25/15 13:43	JPT	MS-V3	5	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-08 | **Client Sample Name:** Neishi Brothers Nursery, DP-4d10.0, 9/18/2015 11:20:00AM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND	A52	1
Tetracosane (Surrogate)	46.8	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/01/15 22:38	MWB	GC-2	1.007	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-09 | **Client Sample Name:** Neishi Brothers Nursery, DP-5d5.0, 9/18/2015 12:50:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	115	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.1	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/28/15 16:11	ADC	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-09 | **Client Sample Name:** Neishi Brothers Nursery, DP-5d5.0, 9/18/2015 12:50:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	46.8	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/01/15 23:00	MWB	GC-2	1.010	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-10 | **Client Sample Name:** Neishi Brothers Nursery, DP-5d10.0, 9/18/2015 12:55:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	**0.045**	**mg/kg**	**0.0050**		**EPA-8260B**	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	**0.0059**	**mg/kg**	**0.0050**		**EPA-8260B**	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	85.5	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	106	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 22:09	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-10 | **Client Sample Name:** Neishi Brothers Nursery, DP-5d10.0, 9/18/2015 12:55:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	57.2	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/01/15 23:22	MWB	GC-2	1.010	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-11 | **Client Sample Name:** Neishi Brothers Nursery, DP-6d5.0, 9/18/2015 2:20:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 22:33	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-11 | **Client Sample Name:** Neishi Brothers Nursery, DP-6d5.0, 9/18/2015 2:20:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	40		EPA-8015B/FFP	ND	A01	1
TPH - Diesel (FFP)	ND	mg/kg	20		EPA-8015B/FFP	ND	A01,A52	1
Tetracosane (Surrogate)	44.1	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/01/15 23:45	MWB	GC-2	2.027	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-12 | **Client Sample Name:** Neishi Brothers Nursery, DP-6d10.0, 9/18/2015 2:35:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	106	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 22:56	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-12 | **Client Sample Name:** Neishi Brothers Nursery, DP-6d10.0, 9/18/2015 2:35:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	46.7	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/02/15 00:08	MWB	GC-2	0.990	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-13 | **Client Sample Name:** Neishi Brothers Nursery, DP-7d5.0, 9/18/2015 3:00:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 23:19	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-13 | **Client Sample Name:** Neishi Brothers Nursery, DP-7d5.0, 9/18/2015 3:00:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	47.4	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/02/15 00:30	MWB	GC-2	1.007	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-14 | **Client Sample Name:** Neishi Brothers Nursery, DP-7d10.0, 9/18/2015 3:15:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.4	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	107	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/24/15 23:42	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-14 | **Client Sample Name:** Neishi Brothers Nursery, DP-7d10.0, 9/18/2015 3:15:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND	A52	1
Tetracosane (Surrogate)	48.0	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/02/15 00:52	MWB	GC-2	1.003	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-15 | **Client Sample Name:** Neishi Brothers Nursery, DP-8d5.0, 9/18/2015 1:40:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.7	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/25/15 00:05	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-15 | **Client Sample Name:** Neishi Brothers Nursery, DP-8d5.0, 9/18/2015 1:40:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND	A52	1
Tetracosane (Surrogate)	48.3	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/02/15 01:15	MWB	GC-2	0.997	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-16 | **Client Sample Name:** Neishi Brothers Nursery, DP-8d10.0, 9/18/2015 1:50:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050		EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010		EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050		EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/25/15 00:28	JPT	MS-V3	1	BYI2284

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-16 | **Client Sample Name:** Neishi Brothers Nursery, DP-8d10.0, 9/18/2015 1:50:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10		EPA-8015B/FFP	ND	A52	1
Tetracosane (Surrogate)	47.8	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/28/15	10/02/15 01:38	MWB	GC-2	1.007	BYI2879

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-17 | **Client Sample Name:** Neishi Brothers Nursery, DP-1, 9/18/2015 2:00:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Ethylbenzene	**1.5**	**ug/L**	**0.50**		**EPA-8260B**	ND	**Z2**	1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Naphthalene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Toluene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Total Xylenes	**9.0**	**ug/L**	**1.0**		**EPA-8260B**	ND	**Z2**	1
p- & m-Xylenes	**6.3**	**ug/L**	**0.50**		**EPA-8260B**	ND	**Z2**	1
o-Xylene	**2.6**	**ug/L**	**0.50**		**EPA-8260B**	ND	**Z2**	1
1,2-Dichloroethane-d4 (Surrogate)	99.8	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/26/15 11:53	JMS	MS-V14	1	BYI2371

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-17 | **Client Sample Name:** Neishi Brothers Nursery, DP-1, 9/18/2015 2:00:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	ug/L	500		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	ug/L	200		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	82.1	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/25/15	10/02/15 12:49	MWB	GC-2	1	BYJ0084

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-18 | **Client Sample Name:** Neishi Brothers Nursery, DP-2, 9/18/2015 2:30:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**8.8**	**ug/L**	**0.50**		**EPA-8260B**	ND	**Z2**	1
Ethylbenzene	**220**	**ug/L**	**2.5**		**EPA-8260B**	ND	**A01**	2
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Naphthalene	**150**	**ug/L**	**2.5**		**EPA-8260B**	ND	**A01**	2
Toluene	**15**	**ug/L**	**0.50**		**EPA-8260B**	ND	**Z2**	1
Total Xylenes	**690**	**ug/L**	**5.0**		**EPA-8260B**	ND	**A01**	2
p- & m-Xylenes	**570**	**ug/L**	**2.5**		**EPA-8260B**	ND	**A01**	2
o-Xylene	**130**	**ug/L**	**2.5**		**EPA-8260B**	ND	**A01**	2
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	99.0	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	92.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.7	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/25/15 12:36	JMS	MS-V14	1	BYI2371
2	EPA-8260B	09/24/15	09/26/15 13:00	JMS	MS-V14	5	BYI2371

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-18 | **Client Sample Name:** Neishi Brothers Nursery, DP-2, 9/18/2015 2:30:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	**2000**	**ug/L**	**830**		**EPA-8015B/FFP**	ND		1
TPH - Diesel (FFP)	**400**	**ug/L**	**330**		**EPA-8015B/FFP**	ND		1
Tetracosane (Surrogate)	54.9	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/25/15	10/06/15 01:28	MWB	GC-13	1.667	BYJ0084

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-19 | **Client Sample Name:** Neishi Brothers Nursery, DP-3, 9/18/2015 2:50:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Naphthalene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Toluene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Total Xylenes	**2.2**	**ug/L**	**1.0**		**EPA-8260B**	ND	**Z2**	1
p- & m-Xylenes	**1.5**	**ug/L**	**0.50**		**EPA-8260B**	ND	**Z2**	1
o-Xylene	**0.74**	**ug/L**	**0.50**		**EPA-8260B**	ND	**Z2**	1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/26/15 12:15	JMS	MS-V14	1	BYI2371

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-19 | **Client Sample Name:** Neishi Brothers Nursery, DP-3, 9/18/2015 2:50:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	ug/L	500		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	ug/L	200		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	82.5	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/25/15	10/02/15 13:34	MWB	GC-2	1	BYJ0084

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-20 | **Client Sample Name:** Neishi Brothers Nursery, DP-4, 9/18/2015 4:00:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**380**	**ug/L**	**12**		**EPA-8260B**	ND	**A01**	1
Ethylbenzene	**1100**	**ug/L**	**12**		**EPA-8260B**	ND	**A01**	1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND	Z2	2
Naphthalene	**210**	**ug/L**	**12**		**EPA-8260B**	ND	**A01**	1
Toluene	**2800**	**ug/L**	**25**		**EPA-8260B**	ND	**A01**	3
Total Xylenes	**4700**	**ug/L**	**25**		**EPA-8260B**	ND	**A01**	1
p- & m-Xylenes	**3300**	**ug/L**	**12**		**EPA-8260B**	ND	**A01**	1
o-Xylene	**1400**	**ug/L**	**12**		**EPA-8260B**	ND	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	95.6	%	75 - 125 (LCL - UCL)		EPA-8260B			2
1,2-Dichloroethane-d4 (Surrogate)	93.6	%	75 - 125 (LCL - UCL)		EPA-8260B			3
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			3
4-Bromofluorobenzene (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.8	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	96.1	%	80 - 120 (LCL - UCL)		EPA-8260B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/26/15 13:23	JMS	MS-V14	25	BYI2371
2	EPA-8260B	09/24/15	09/25/15 12:59	JMS	MS-V14	1	BYI2371
3	EPA-8260B	09/24/15	09/29/15 03:24	JMS	MS-V14	50	BYI2371

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-20 | **Client Sample Name:** Neishi Brothers Nursery, DP-4, 9/18/2015 4:00:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	**9700**	**ug/L**	**7200**		**EPA-8015B/FFP**	ND	**A01**	1
TPH - Diesel (FFP)	ND	ug/L	2900		EPA-8015B/FFP	ND	A01	1
Tetracosane (Surrogate)	44.0	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/25/15	10/06/15 01:51	MWB	GC-13	14.493	BYJ0084

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-21 | **Client Sample Name:** Neishi Brothers Nursery, DP-5, 9/18/2015 3:40:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Ethylbenzene	**2.8**	**ug/L**	**0.50**		**EPA-8260B**	ND	**Z2**	1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Naphthalene	**33**	**ug/L**	**0.50**		**EPA-8260B**	ND	**Z2**	1
Toluene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND	Z2	1
p- & m-Xylenes	**0.63**	**ug/L**	**0.50**		**EPA-8260B**	ND	**Z2**	1
o-Xylene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
1,2-Dichloroethane-d4 (Surrogate)	96.7	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/25/15 11:06	JMS	MS-V14	1	BYI2371

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-21 | **Client Sample Name:** Neishi Brothers Nursery, DP-5, 9/18/2015 3:40:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	**1300**	**ug/L**	**500**		**EPA-8015B/FFP**	ND		1
TPH - Diesel (FFP)	ND	ug/L	200		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	75.5	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/25/15	10/02/15 14:19	MWB	GC-2	1	BYJ0084

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-22 | **Client Sample Name:** Neishi Brothers Nursery, DP-6, 9/18/2015 4:10:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Naphthalene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Toluene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND	Z2	1
p- & m-Xylenes	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
o-Xylene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/25/15 11:29	JMS	MS-V14	1	BYI2371

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-22 | **Client Sample Name:** Neishi Brothers Nursery, DP-6, 9/18/2015 4:10:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	ug/L	500		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	ug/L	200		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	78.2	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/25/15	10/02/15 14:41	MWB	GC-2	1	BYJ0084

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-23 | **Client Sample Name:** Neishi Brothers Nursery, DP-7, 9/18/2015 4:15:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Naphthalene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Toluene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND	Z2	1
p- & m-Xylenes	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
o-Xylene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/25/15 11:51	JMS	MS-V14	1	BYI2371

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-23 | **Client Sample Name:** Neishi Brothers Nursery, DP-7, 9/18/2015 4:15:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	ug/L	500		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	ug/L	200		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	64.2	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/25/15	10/02/15 16:12	MWB	GC-2	1	BYJ0084

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1524165-24 | **Client Sample Name:** Neishi Brothers Nursery, DP-8, 9/18/2015 4:30:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Naphthalene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Toluene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND	Z2	1
p- & m-Xylenes	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
o-Xylene	ND	ug/L	0.50		EPA-8260B	ND	Z2	1
1,2-Dichloroethane-d4 (Surrogate)	96.3	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/24/15	09/25/15 12:14	JMS	MS-V14	1	BYI2371

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

BCL Sample ID: 1524165-24 | **Client Sample Name:** Neishi Brothers Nursery, DP-8, 9/18/2015 4:30:00PM, Forrest Cook

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	ug/L	620		EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	ug/L	250		EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	80.2	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	09/25/15	10/02/15 16:34	MWB	GC-2	1.250	BYJ0084

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYI2284						
Benzene	BYI2284-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BYI2284-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BYI2284-BLK1	ND	mg/kg	0.0050		
Naphthalene	BYI2284-BLK1	ND	mg/kg	0.0050		
Toluene	BYI2284-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BYI2284-BLK1	ND	mg/kg	0.010		
p- & m-Xylenes	BYI2284-BLK1	ND	mg/kg	0.0050		
o-Xylene	BYI2284-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	**BYI2284-BLK1**	**105**	%	**70 - 121 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYI2284-BLK1**	**103**	%	**81 - 117 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYI2284-BLK1**	**100**	%	**74 - 121 (LCL - UCL)**		
QC Batch ID: BYI2371						
Benzene	BYI2371-BLK1	ND	ug/L	0.50		
Ethylbenzene	BYI2371-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BYI2371-BLK1	ND	ug/L	0.50		
Naphthalene	BYI2371-BLK1	ND	ug/L	0.50		
Toluene	BYI2371-BLK1	ND	ug/L	0.50		
Total Xylenes	BYI2371-BLK1	ND	ug/L	1.0		
p- & m-Xylenes	BYI2371-BLK1	ND	ug/L	0.50		
o-Xylene	BYI2371-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	**BYI2371-BLK1**	**106**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYI2371-BLK1**	**95.8**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYI2371-BLK1**	**102**	%	**80 - 120 (LCL - UCL)**		

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYI2284										
Benzene	BYI2284-BS1	LCS	0.13189	0.12500	mg/kg	106		70 - 130		
Toluene	BYI2284-BS1	LCS	0.13587	0.12500	mg/kg	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYI2284-BS1	LCS	0.049660	0.050000	mg/kg	99.3		70 - 121		
Toluene-d8 (Surrogate)	BYI2284-BS1	LCS	0.049900	0.050000	mg/kg	99.8		81 - 117		
4-Bromofluorobenzene (Surrogate)	BYI2284-BS1	LCS	0.050990	0.050000	mg/kg	102		74 - 121		
QC Batch ID: BYI2371										
Benzene	BYI2371-BS1	LCS	24.924	25.000	ug/L	99.7		70 - 130		
Toluene	BYI2371-BS1	LCS	25.188	25.000	ug/L	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYI2371-BS1	LCS	10.220	10.000	ug/L	102		75 - 125		
Toluene-d8 (Surrogate)	BYI2371-BS1	LCS	10.000	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYI2371-BS1	LCS	9.6100	10.000	ug/L	96.1		80 - 120		

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYI2284	Used client sample: N										
Benzene	MS	1521506-70	ND	0.11824	0.12500	mg/kg		94.6		70 - 130	
	MSD	1521506-70	ND	0.12038	0.12500	mg/kg	1.8	96.3	20	70 - 130	
Toluene	MS	1521506-70	ND	0.11600	0.12500	mg/kg		92.8		70 - 130	
	MSD	1521506-70	ND	0.12657	0.12500	mg/kg	8.7	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1521506-70	ND	0.050370	0.050000	mg/kg		101		70 - 121	
	MSD	1521506-70	ND	0.049330	0.050000	mg/kg	2.1	98.7		70 - 121	
Toluene-d8 (Surrogate)	MS	1521506-70	ND	0.048070	0.050000	mg/kg		96.1		81 - 117	
	MSD	1521506-70	ND	0.051270	0.050000	mg/kg	6.4	103		81 - 117	
4-Bromofluorobenzene (Surrogate)	MS	1521506-70	ND	0.051390	0.050000	mg/kg		103		74 - 121	
	MSD	1521506-70	ND	0.048930	0.050000	mg/kg	4.9	97.9		74 - 121	
QC Batch ID: BYI2371	Used client sample: N										
Benzene	MS	1523812-02	ND	26.536	25.000	ug/L		106		70 - 130	
	MSD	1523812-02	ND	23.938	25.000	ug/L	10.3	95.8	20	70 - 130	
Toluene	MS	1523812-02	ND	27.338	25.000	ug/L		109		70 - 130	
	MSD	1523812-02	ND	24.959	25.000	ug/L	9.1	99.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1523812-02	ND	8.7800	10.000	ug/L		87.8		75 - 125	
	MSD	1523812-02	ND	8.3100	10.000	ug/L	5.5	83.1		75 - 125	
Toluene-d8 (Surrogate)	MS	1523812-02	ND	9.9400	10.000	ug/L		99.4		80 - 120	
	MSD	1523812-02	ND	9.9000	10.000	ug/L	0.4	99.0		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1523812-02	ND	9.8000	10.000	ug/L		98.0		80 - 120	
	MSD	1523812-02	ND	9.8200	10.000	ug/L	0.2	98.2		80 - 120	

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYI2879						
TPH - Gasoline	BYI2879-BLK1	ND	mg/kg	20		
TPH - Diesel (FFP)	BYI2879-BLK1	ND	mg/kg	10		
Tetracosane (Surrogate)	**BYI2879-BLK1**	**62.0**	%	**20 - 145 (LCL - UCL)**		
QC Batch ID: BYJ0084						
TPH - Gasoline	BYJ0084-BLK1	ND	ug/L	500		
TPH - Diesel (FFP)	BYJ0084-BLK1	ND	ug/L	200		
Tetracosane (Surrogate)	**BYJ0084-BLK1**	**75.5**	%	**37 - 134 (LCL - UCL)**		

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYI2879										
TPH - Diesel (FFP)	BYI2879-BS1	LCS	58.418	83.333	mg/kg	70.1		64 - 124		
Tetracosane (Surrogate)	BYI2879-BS1	LCS	1.9803	3.3957	mg/kg	58.3		20 - 145		
QC Batch ID: BYJ0084										
TPH - Diesel (FFP)	BYJ0084-BS1	LCS	2313.0	2500.0	ug/L	92.5		52 - 128		
Tetracosane (Surrogate)	BYJ0084-BS1	LCS	82.870	101.87	ug/L	81.3		37 - 134		

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYI2879	Used client sample: N										
TPH - Diesel (FFP)	MS	1521506-70	ND	52.018	82.781	mg/kg		62.8		52 - 131	
	MSD	1521506-70	ND	59.216	83.333	mg/kg	12.9	71.1	30	52 - 131	
Tetracosane (Surrogate)	MS	1521506-70	ND	1.8081	3.3732	mg/kg		53.6		20 - 145	
	MSD	1521506-70	ND	2.0877	3.3957	mg/kg	14.4	61.5		20 - 145	
QC Batch ID: BYJ0084	Used client sample: N										
TPH - Diesel (FFP)	MS	1521506-86	ND	2120.9	2500.0	ug/L		84.8		50 - 127	
	MSD	1521506-86	ND	2481.3	2500.0	ug/L	15.7	99.3	24	50 - 127	
Tetracosane (Surrogate)	MS	1521506-86	ND	75.490	101.87	ug/L		74.1		37 - 134	
	MSD	1521506-86	ND	89.890	101.87	ug/L	17.4	88.2		37 - 134	

Almar Environmental
407 Almar Avenue
Santa Cruz, CA 95060

Reported: 10/16/2015 13:14
Project: Soils/Waters
Project Number: 357 105th Ave
Project Manager: Forrest Cook

Notes And Definitions

ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.
A52	Chromatogram not typical of diesel.
Z2	Liquid was combined from 2 VOAs for testing due to the amount of solid material within each sample container

APPENDIX F

Lab Data Sheets: Soil Gas


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 269994
ANALYTICAL REPORT

Almar Environmental

Project : 1067C
Location : Neishi Bros.
Level : II

Sample ID	Lab ID
SG-1	269994-001
SG-2	269994-002
SG-3	269994-003
SG-4	269994-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 09/28/2015

Will Rice
Project Manager
will.rice@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**269994**
Client:	**Almar Environmental**
Project:	**1067C**
Location:	**Neishi Bros.**
Request Date:	**09/21/15**
Samples Received:	**09/21/15**

This data package contains sample and QC results for four air samples, requested for the above referenced project on 09/21/15. The samples were received intact.

Volatile Organics in Air by MS (EPA TO-15):

High responses were observed for 2-hexanone, m,p-xylenes, and o-xylene in the CCV analyzed 09/24/15 12:28; affected data was qualified with "b". High responses were observed for many analytes in the CCV analyzed 09/25/15 10:23; affected data was qualified with "b". Low responses were observed for bromoform in a number of CCVs; affected data was qualified with "b". Low recoveries were observed for bromoform in the BS/BSD for batch 227471; the associated RPD was within limits, and these low recoveries were not associated with any reported results. Low recoveries were observed for bromoform in the BS/BSD for batch 227528; the associated RPD was within limits, and these low recoveries were not associated with any reported results. High recoveries were observed for many analytes in the BS/BSD for batch 227529. High RPD was observed for naphthalene and 1,2,4-trichlorobenzene; these analytes were not detected at or above the RL in the associated sample. Low recoveries were observed for bromoform in the BS/BSD for batch 227579; the associated RPD was within limits, and these low recoveries were not associated with any reported results. High recoveries were observed for many analytes in the BS/BSD for batch 227580; these high recoveries were not associated with any reported results. High RPD was observed for naphthalene and 1,2,4-trichlorobenzene; the high RPD was not associated with any reported results. Low recoveries were observed for bromoform in the BS/BSD for batch 227645; the associated RPD was within limits, and these low recoveries were not associated with any reported results. SG-3 (lab # 269994-003) was diluted due to problematic matrix. No other analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946 and EPA TO-3):

No analytical problems were encountered.

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

AIR TESTING CHAIN OF CUSTODY
& PURCHASE ORDER

Page 1 of 1

Chain of Custody # :

C&T LOGIN # 269994

Project No: 1067C
Project Name: Nishi Bros.
EDD Format: EDF Rpt Level: II III IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: F. Cook
Report To: F. Cook
Company : Almar Env
Telephone: (831) 420-7923
Email: cook.forrest@gmail.com

Lab No.	Sample ID.	Sampling Information					TESTING REQUESTED				
		Date Collected	Time Collected	Canister ID (Bar Code #)	Flow Controller ID	Sample Volume (Gauge Reading)	TO-15 + VOCs by TPHg	O_2, He Fixed Gases			
1	SG-1	5-21-15	11:25	262	A01185	-5	X	X			
2	SG-2	↓	12:30	80	A00002	-5	X	X			
3	SG-3		12:48	257	A00029	-5	X	X			
4	SG-4		11:50	337	A00040	-5	X	X			

Notes:

RELINQUISHED BY:	RECEIVED BY:
5-21-15 13:28 DATE/TIME	5/21/15 13:28 DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

COOLER RECEIPT CHECKLIST Curtis & Tompkins, Ltd.

Login # 169994 Date Received 9/21/15 Number of coolers 0
Client Almar Project Neishi Bros.

Date Opened 9/22/15 By (print) AM (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) YES (NO)
   Shipping info

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☑ NO
   How many Name Date
2B. Were custody seals intact upon arrival? YES NO (N/A)
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

   ☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None
   ☐ Cloth material ☑ Cardboard ☐ Styrofoam ☐ Paper towels
7. Temperature documentation: * Notify PM if temperature exceeds 6°C

   Type of ice used: ☐ Wet ☐ Blue/Gel ☑ None Temp(°C)

   ☐ Samples Received on ice & cold without a temperature blank

   ☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are there any missing / extra samples? YES (NO)
11. Are samples in the appropriate containers for indicated tests? (YES) NO
12. Are sample labels present, in good condition and complete? (YES) NO
13. Do the sample labels agree with custody papers? (YES) NO
14. Was sufficient amount of sample sent for tests requested? (YES) NO
15. Are the samples appropriately preserved? YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? YES NO (N/A)
17. Did you document your preservative check? YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? YES NO (N/A)
21. Was the client contacted concerning this sample delivery? YES (NO)
   If YES, Who was called? By Date:

COMMENTS

Rev 9, 10/11

Curtis & Tompkins, Ltd.

Detections Summary for 269994

Results for any subcontracted analyses are not included in this summary.

Client : Almar Environmental
Project : 1067C
Location : Neishi Bros.

Client Sample ID : SG-1 Laboratory Sample ID : 269994-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acrolein	140		85		ppbv	As Recd	42.60	EPA TO-15	METHOD
Acetone	440		85		ppbv	As Recd	42.60	EPA TO-15	METHOD
Carbon Disulfide	60		21		ppbv	As Recd	42.60	EPA TO-15	METHOD
n-Hexane	6,200		64		ppbv	As Recd	127.8	EPA TO-15	METHOD
2-Butanone	310		21		ppbv	As Recd	42.60	EPA TO-15	METHOD
Chloroform	24		21		ppbv	As Recd	42.60	EPA TO-15	METHOD
Cyclohexane	3,800		21		ppbv	As Recd	42.60	EPA TO-15	METHOD
Benzene	1,200		21		ppbv	As Recd	42.60	EPA TO-15	METHOD
n-Heptane	2,100		21		ppbv	As Recd	42.60	EPA TO-15	METHOD
Helium	2,700		2,100		ppmv	As Recd	2.130	ASTM D1946	METHOD
Oxygen	120,000		2,100		ppmv	As Recd	2.130	ASTM D1946	METHOD
Gasoline Range Organics C6-C12	65,000		2,100	240	ppbv	As Recd	42.60	EPA TO-3	METHOD

Client Sample ID : SG-2 Laboratory Sample ID : 269994-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acrolein	270		92		ppbv	As Recd	45.80	EPA TO-15	METHOD
Acetone	420		92		ppbv	As Recd	45.80	EPA TO-15	METHOD
Carbon Disulfide	73		23		ppbv	As Recd	45.80	EPA TO-15	METHOD
n-Hexane	3,400		23		ppbv	As Recd	45.80	EPA TO-15	METHOD
2-Butanone	270		23		ppbv	As Recd	45.80	EPA TO-15	METHOD
Cyclohexane	7,200		46		ppbv	As Recd	91.60	EPA TO-15	METHOD
Benzene	1,800		23		ppbv	As Recd	45.80	EPA TO-15	METHOD
1,2-Dichloroethane	25		23		ppbv	As Recd	45.80	EPA TO-15	METHOD
n-Heptane	870		23		ppbv	As Recd	45.80	EPA TO-15	METHOD
Toluene	28		23		ppbv	As Recd	45.80	EPA TO-15	METHOD
Helium	5,100		2,300		ppmv	As Recd	2.290	ASTM D1946	METHOD
Oxygen	90,000		2,300		ppmv	As Recd	2.290	ASTM D1946	METHOD
Gasoline Range Organics C6-C12	83,000		2,300	260	ppbv	As Recd	45.80	EPA TO-3	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : SG-3 Laboratory Sample ID : 269994-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acrolein	30		12		ppbv	As Recd	6.210	EPA TO-15	METHOD
Acetone	140		12		ppbv	As Recd	6.210	EPA TO-15	METHOD
Carbon Disulfide	46		3.1		ppbv	As Recd	6.210	EPA TO-15	METHOD
n-Hexane	22		3.1		ppbv	As Recd	6.210	EPA TO-15	METHOD
2-Butanone	77		3.1		ppbv	As Recd	6.210	EPA TO-15	METHOD
Chloroform	8.5		3.1		ppbv	As Recd	6.210	EPA TO-15	METHOD
Cyclohexane	29		3.1		ppbv	As Recd	6.210	EPA TO-15	METHOD
Benzene	3.8		3.1		ppbv	As Recd	6.210	EPA TO-15	METHOD
n-Heptane	19		3.1		ppbv	As Recd	6.210	EPA TO-15	METHOD
4-Methyl-2-Pentanone	7.3		3.1		ppbv	As Recd	6.210	EPA TO-15	METHOD
Toluene	6.4		6.2		ppbv	As Recd	12.42	EPA TO-15	METHOD
Ethylbenzene	40		6.2		ppbv	As Recd	12.42	EPA TO-15	METHOD
m,p-Xylenes	100		6.2		ppbv	As Recd	12.42	EPA TO-15	METHOD
o-Xylene	20		6.2		ppbv	As Recd	12.42	EPA TO-15	METHOD
Oxygen	75,000		2,100		ppmv	As Recd	2.070	ASTM D1946	METHOD
Gasoline Range Organics C6-C12	6,400		100	12	ppbv	As Recd	2.070	EPA TO-3	METHOD

Client Sample ID : SG-4 Laboratory Sample ID : 269994-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
n-Hexane	12,000		120		ppbv	As Recd	247.2	EPA TO-15	METHOD
Cyclohexane	9,700		120		ppbv	As Recd	247.2	EPA TO-15	METHOD
Benzene	5,700		120		ppbv	As Recd	247.2	EPA TO-15	METHOD
n-Heptane	7,800		120		ppbv	As Recd	247.2	EPA TO-15	METHOD
Ethylbenzene	1,300		120		ppbv	As Recd	247.2	EPA TO-15	METHOD
m,p-Xylenes	360		120		ppbv	As Recd	247.2	EPA TO-15	METHOD
Helium	3,300		2,100		ppmv	As Recd	2.060	ASTM D1946	METHOD
Oxygen	130,000		2,100		ppmv	As Recd	2.060	ASTM D1946	METHOD
Gasoline Range Organics C6-C12	170,000		2,100	230	ppbv	As Recd	41.20	EPA TO-3	METHOD

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Field ID:	SG-1	Units (M):	ug/m3
Lab ID:	269994-001	Sampled:	09/21/15
Matrix:	Air	Received:	09/21/15
Units (V):	ppbv		

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	21	ND	110	42.60	227471	09/24/15
Freon 114	ND	21	ND	150	42.60	227471	09/24/15
Chloromethane	ND	21	ND	44	42.60	227471	09/24/15
Vinyl Chloride	ND	21	ND	54	42.60	227471	09/24/15
1,3-Butadiene	ND	21	ND	47	42.60	227471	09/24/15
Bromomethane	ND	21	ND	83	42.60	227471	09/24/15
Chloroethane	ND	21	ND	56	42.60	227471	09/24/15
Trichlorofluoromethane	ND	21	ND	120	42.60	227471	09/24/15
Acrolein	140	85	320	200	42.60	227471	09/24/15
1,1-Dichloroethene	ND	21	ND	84	42.60	227471	09/24/15
Freon 113	ND	21	ND	160	42.60	227471	09/24/15
Acetone	440	85	1,100	200	42.60	227471	09/24/15
Carbon Disulfide	60	21	190	66	42.60	227471	09/24/15
Isopropanol	ND	85	ND	210	42.60	227471	09/24/15
Methylene Chloride	ND	21	ND	74	42.60	227471	09/24/15
trans-1,2-Dichloroethene	ND	21	ND	84	42.60	227471	09/24/15
MTBE	ND	21	ND	77	42.60	227471	09/24/15
n-Hexane	6,200	64	22,000	230	127.8	227579	09/25/15
1,1-Dichloroethane	ND	21	ND	86	42.60	227471	09/24/15
Vinyl Acetate	ND	21	ND	75	42.60	227471	09/24/15
cis-1,2-Dichloroethene	ND	21	ND	84	42.60	227471	09/24/15
2-Butanone	310	21	900	63	42.60	227471	09/24/15
Ethyl Acetate	ND	21	ND	77	42.60	227471	09/24/15
Tetrahydrofuran	ND	21	ND	63	42.60	227471	09/24/15
Chloroform	24	21	120	100	42.60	227471	09/24/15
1,1,1-Trichloroethane	ND	21	ND	120	42.60	227471	09/24/15
Cyclohexane	3,800	21	13,000	73	42.60	227471	09/24/15
Carbon Tetrachloride	ND	21	ND	130	42.60	227471	09/24/15
Benzene	1,200	21	3,800	68	42.60	227471	09/24/15
1,2-Dichloroethane	ND	21	ND	86	42.60	227471	09/24/15
n-Heptane	2,100	21	8,800	87	42.60	227471	09/24/15
Trichloroethene	ND	21	ND	110	42.60	227471	09/24/15
1,2-Dichloropropane	ND	21	ND	98	42.60	227471	09/24/15
Bromodichloromethane	ND	21	ND	140	42.60	227471	09/24/15
cis-1,3-Dichloropropene	ND	21	ND	97	42.60	227471	09/24/15
4-Methyl-2-Pentanone	ND	21	ND	87	42.60	227471	09/24/15

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Field ID:	SG-1	Units (M):	ug/m3
Lab ID:	269994-001	Sampled:	09/21/15
Matrix:	Air	Received:	09/21/15
Units (V):	ppbv		

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac	Batch#	Analyzed
Toluene	ND	21	ND	80	42.60	227471	09/24/15
trans-1,3-Dichloropropene	ND	21	ND	97	42.60	227471	09/24/15
1,1,2-Trichloroethane	ND	21	ND	120	42.60	227471	09/24/15
Tetrachloroethene	ND	21	ND	140	42.60	227471	09/24/15
2-Hexanone	ND	21	ND	87	42.60	227471	09/24/15
Dibromochloromethane	ND	21	ND	180	42.60	227471	09/24/15
1,2-Dibromoethane	ND	21	ND	160	42.60	227471	09/24/15
Chlorobenzene	ND	21	ND	98	42.60	227471	09/24/15
Ethylbenzene	ND	21	ND	92	42.60	227471	09/24/15
m,p-Xylenes	ND	21	ND	92	42.60	227471	09/24/15
o-Xylene	ND	21	ND	92	42.60	227471	09/24/15
Styrene	ND	21	ND	91	42.60	227471	09/24/15
Bromoform	ND	64	ND	660	127.8	227529	09/24/15
1,1,2,2-Tetrachloroethane	ND	21	ND	150	42.60	227471	09/24/15
4-Ethyltoluene	ND	21	ND	100	42.60	227471	09/24/15
1,3,5-Trimethylbenzene	ND	21	ND	100	42.60	227471	09/24/15
1,2,4-Trimethylbenzene	ND	21	ND	100	42.60	227471	09/24/15
1,3-Dichlorobenzene	ND	21	ND	130	42.60	227471	09/24/15
1,4-Dichlorobenzene	ND	21	ND	130	42.60	227471	09/24/15
Benzyl chloride	ND	21	ND	110	42.60	227471	09/24/15
1,2-Dichlorobenzene	ND	21	ND	130	42.60	227471	09/24/15
1,2,4-Trichlorobenzene	ND	21	ND	160	42.60	227471	09/24/15
Hexachlorobutadiene	ND	21	ND	230	42.60	227471	09/24/15
Naphthalene	ND	85	ND	450	42.60	227471	09/24/15

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Bromofluorobenzene	112	80-121	42.60	227471	09/24/15

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Field ID:	SG-2	Units (M):	ug/m3
Lab ID:	269994-002	Sampled:	09/21/15
Matrix:	Air	Received:	09/21/15
Units (V):	ppbv	Analyzed:	09/24/15

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac	Batch#
Freon 12	ND	23	ND	110	45.80	227471
Freon 114	ND	23	ND	160	45.80	227471
Chloromethane	ND	23	ND	47	45.80	227471
Vinyl Chloride	ND	23	ND	59	45.80	227471
1,3-Butadiene	ND	23	ND	51	45.80	227471
Bromomethane	ND	23	ND	89	45.80	227471
Chloroethane	ND	23	ND	60	45.80	227471
Trichlorofluoromethane	ND	23	ND	130	45.80	227471
Acrolein	270	92	610	210	45.80	227471
1,1-Dichloroethene	ND	23	ND	91	45.80	227471
Freon 113	ND	23	ND	180	45.80	227471
Acetone	420	92	1,000	220	45.80	227471
Carbon Disulfide	73	23	230	71	45.80	227471
Isopropanol	ND	92	ND	230	45.80	227471
Methylene Chloride	ND	23	ND	80	45.80	227471
trans-1,2-Dichloroethene	ND	23	ND	91	45.80	227471
MTBE	ND	23	ND	83	45.80	227471
n-Hexane	3,400	23	12,000	81	45.80	227471
1,1-Dichloroethane	ND	23	ND	93	45.80	227471
Vinyl Acetate	ND	23	ND	81	45.80	227471
cis-1,2-Dichloroethene	ND	23	ND	91	45.80	227471
2-Butanone	270	23	810	68	45.80	227471
Ethyl Acetate	ND	23	ND	83	45.80	227471
Tetrahydrofuran	ND	23	ND	68	45.80	227471
Chloroform	ND	23	ND	110	45.80	227471
1,1,1-Trichloroethane	ND	23	ND	120	45.80	227471
Cyclohexane	7,200	46	25,000	160	91.60	227529
Carbon Tetrachloride	ND	23	ND	140	45.80	227471
Benzene	1,800	23	5,900	73	45.80	227471
1,2-Dichloroethane	25	23	100	93	45.80	227471
n-Heptane	870	23	3,600	94	45.80	227471
Trichloroethene	ND	23	ND	120	45.80	227471
1,2-Dichloropropane	ND	23	ND	110	45.80	227471
Bromodichloromethane	ND	23	ND	150	45.80	227471
cis-1,3-Dichloropropene	ND	23	ND	100	45.80	227471
4-Methyl-2-Pentanone	ND	23	ND	94	45.80	227471

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Field ID:	SG-2	Units (M):	ug/m3
Lab ID:	269994-002	Sampled:	09/21/15
Matrix:	Air	Received:	09/21/15
Units (V):	ppbv	Analyzed:	09/24/15

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac	Batch#
Toluene	28	23	100	86	45.80	227471
trans-1,3-Dichloropropene	ND	23	ND	100	45.80	227471
1,1,2-Trichloroethane	ND	23	ND	120	45.80	227471
Tetrachloroethene	ND	23	ND	160	45.80	227471
2-Hexanone	ND	23	ND	94	45.80	227471
Dibromochloromethane	ND	23	ND	200	45.80	227471
1,2-Dibromoethane	ND	23	ND	180	45.80	227471
Chlorobenzene	ND	23	ND	110	45.80	227471
Ethylbenzene	ND	23	ND	99	45.80	227471
m,p-Xylenes	ND	23	ND	99	45.80	227471
o-Xylene	ND	23	ND	99	45.80	227471
Styrene	ND	23	ND	98	45.80	227471
Bromoform	ND	46	ND	470	91.60	227529
1,1,2,2-Tetrachloroethane	ND	23	ND	160	45.80	227471
4-Ethyltoluene	ND	23	ND	110	45.80	227471
1,3,5-Trimethylbenzene	ND	23	ND	110	45.80	227471
1,2,4-Trimethylbenzene	ND	23	ND	110	45.80	227471
1,3-Dichlorobenzene	ND	23	ND	140	45.80	227471
1,4-Dichlorobenzene	ND	23	ND	140	45.80	227471
Benzyl chloride	ND	23	ND	120	45.80	227471
1,2-Dichlorobenzene	ND	23	ND	140	45.80	227471
1,2,4-Trichlorobenzene	ND	23	ND	170	45.80	227471
Hexachlorobutadiene	ND	23	ND	240	45.80	227471
Naphthalene	ND	92	ND	480	45.80	227471

Surrogate	%REC	Limits	Diln Fac	Batch#
Bromofluorobenzene	109	80-121	45.80	227471

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Field ID:	SG-3	Units (M):	ug/m3
Lab ID:	269994-003	Sampled:	09/21/15
Matrix:	Air	Received:	09/21/15
Units (V):	ppbv		

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	3.1	ND	15	6.210	227528	09/24/15
Freon 114	ND	3.1	ND	22	6.210	227528	09/24/15
Chloromethane	ND	3.1	ND	6.4	6.210	227528	09/24/15
Vinyl Chloride	ND	3.1	ND	7.9	6.210	227528	09/24/15
1,3-Butadiene	ND	3.1	ND	6.9	6.210	227528	09/24/15
Bromomethane	ND	3.1	ND	12	6.210	227528	09/24/15
Chloroethane	ND	3.1	ND	8.2	6.210	227528	09/24/15
Trichlorofluoromethane	ND	3.1	ND	17	6.210	227528	09/24/15
Acrolein	30	12	68	28	6.210	227528	09/24/15
1,1-Dichloroethene	ND	3.1	ND	12	6.210	227528	09/24/15
Freon 113	ND	3.1	ND	24	6.210	227528	09/24/15
Acetone	140	12	320	30	6.210	227528	09/24/15
Carbon Disulfide	46	3.1	140	9.7	6.210	227528	09/24/15
Isopropanol	ND	12	ND	31	6.210	227528	09/24/15
Methylene Chloride	ND	3.1	ND	11	6.210	227528	09/24/15
trans-1,2-Dichloroethene	ND	3.1	ND	12	6.210	227528	09/24/15
MTBE	ND	3.1	ND	11	6.210	227528	09/24/15
n-Hexane	22	3.1	78	11	6.210	227528	09/24/15
1,1-Dichloroethane	ND	3.1	ND	13	6.210	227528	09/24/15
Vinyl Acetate	ND	3.1	ND	11	6.210	227528	09/24/15
cis-1,2-Dichloroethene	ND	3.1	ND	12	6.210	227528	09/24/15
2-Butanone	77	3.1	230	9.2	6.210	227528	09/24/15
Ethyl Acetate	ND	3.1	ND	11	6.210	227528	09/24/15
Tetrahydrofuran	ND	3.1	ND	9.2	6.210	227528	09/24/15
Chloroform	8.5	3.1	42	15	6.210	227528	09/24/15
1,1,1-Trichloroethane	ND	3.1	ND	17	6.210	227528	09/24/15
Cyclohexane	29	3.1	99	11	6.210	227528	09/24/15
Carbon Tetrachloride	ND	3.1	ND	20	6.210	227528	09/24/15
Benzene	3.8	3.1	12	9.9	6.210	227528	09/24/15
1,2-Dichloroethane	ND	3.1	ND	13	6.210	227528	09/24/15
n-Heptane	19	3.1	78	13	6.210	227528	09/24/15
Trichloroethene	ND	3.1	ND	17	6.210	227528	09/24/15
1,2-Dichloropropane	ND	3.1	ND	14	6.210	227528	09/24/15
Bromodichloromethane	ND	3.1	ND	21	6.210	227528	09/24/15
cis-1,3-Dichloropropene	ND	3.1	ND	14	6.210	227528	09/24/15
4-Methyl-2-Pentanone	7.3	3.1	30	13	6.210	227528	09/24/15

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Field ID:	SG-3	Units (M):	ug/m3
Lab ID:	269994-003	Sampled:	09/21/15
Matrix:	Air	Received:	09/21/15
Units (V):	ppbv		

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac	Batch#	Analyzed
Toluene	6.4	6.2	24	23	12.42	227579	09/25/15
trans-1,3-Dichloropropene	ND	3.1	ND	14	6.210	227528	09/24/15
1,1,2-Trichloroethane	ND	6.2	ND	34	12.42	227579	09/25/15
Tetrachloroethene	ND	6.2	ND	42	12.42	227579	09/25/15
2-Hexanone	ND	6.2	ND	25	12.42	227579	09/25/15
Dibromochloromethane	ND	6.2	ND	53	12.42	227579	09/25/15
1,2-Dibromoethane	ND	6.2	ND	48	12.42	227579	09/25/15
Chlorobenzene	ND	6.2	ND	29	12.42	227579	09/25/15
Ethylbenzene	40	6.2	170	27	12.42	227579	09/25/15
m,p-Xylenes	100	6.2	450	27	12.42	227579	09/25/15
o-Xylene	20	6.2	87	27	12.42	227579	09/25/15
Styrene	ND	6.2	ND	26	12.42	227579	09/25/15
Bromoform	ND	6.2	ND	64	12.42	227580	09/25/15
1,1,2,2-Tetrachloroethane	ND	6.2	ND	43	12.42	227579	09/25/15
4-Ethyltoluene	ND	6.2	ND	31	12.42	227579	09/25/15
1,3,5-Trimethylbenzene	ND	6.2	ND	31	12.42	227579	09/25/15
1,2,4-Trimethylbenzene	ND	6.2	ND	31	12.42	227579	09/25/15
1,3-Dichlorobenzene	ND	6.2	ND	37	12.42	227579	09/25/15
1,4-Dichlorobenzene	ND	6.2	ND	37	12.42	227579	09/25/15
Benzyl chloride	ND	6.2	ND	32	12.42	227579	09/25/15
1,2-Dichlorobenzene	ND	6.2	ND	37	12.42	227579	09/25/15
1,2,4-Trichlorobenzene	ND	6.2	ND	46	12.42	227579	09/25/15
Hexachlorobutadiene	ND	6.2	ND	66	12.42	227579	09/25/15
Naphthalene	ND	25	ND	130	12.42	227579	09/25/15

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Bromofluorobenzene	112	80-121	12.42	227579	09/25/15

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Field ID:	SG-4	Units (M):	ug/m3
Lab ID:	269994-004	Diln Fac:	247.2
Matrix:	Air	Sampled:	09/21/15
Units (V):	ppbv	Received:	09/21/15

Analyte	Result (V)	RL	Result (M)	RL	Batch#	Analyzed
Freon 12	ND	120	ND	610	227529	09/24/15
Freon 114	ND	120	ND	860	227529	09/24/15
Chloromethane	ND	120	ND	260	227529	09/24/15
Vinyl Chloride	ND	120	ND	320	227529	09/24/15
1,3-Butadiene	ND	120	ND	270	227529	09/24/15
Bromomethane	ND	120	ND	480	227529	09/24/15
Chloroethane	ND	120	ND	330	227529	09/24/15
Trichlorofluoromethane	ND	120	ND	690	227529	09/24/15
Acrolein	ND	490	ND	1,100	227529	09/24/15
1,1-Dichloroethene	ND	120	ND	490	227529	09/24/15
Freon 113	ND	120	ND	950	227529	09/24/15
Acetone	ND	490	ND	1,200	227529	09/24/15
Carbon Disulfide	ND	120	ND	380	227529	09/24/15
Isopropanol	ND	490	ND	1,200	227529	09/24/15
Methylene Chloride	ND	120	ND	430	227529	09/24/15
trans-1,2-Dichloroethene	ND	120	ND	490	227529	09/24/15
MTBE	ND	120	ND	450	227529	09/24/15
n-Hexane	12,000	120	43,000	440	227529	09/24/15
1,1-Dichloroethane	ND	120	ND	500	227529	09/24/15
Vinyl Acetate	ND	120	ND	440	227529	09/24/15
cis-1,2-Dichloroethene	ND	120	ND	490	227529	09/24/15
2-Butanone	ND	120	ND	360	227529	09/24/15
Ethyl Acetate	ND	120	ND	450	227529	09/24/15
Tetrahydrofuran	ND	120	ND	360	227529	09/24/15
Chloroform	ND	120	ND	600	227529	09/24/15
1,1,1-Trichloroethane	ND	120	ND	670	227529	09/24/15
Cyclohexane	9,700	120	33,000	430	227529	09/24/15
Carbon Tetrachloride	ND	120	ND	780	227529	09/24/15
Benzene	5,700	120	18,000	390	227529	09/24/15
1,2-Dichloroethane	ND	120	ND	500	227529	09/24/15
n-Heptane	7,800	120	32,000	510	227529	09/24/15
Trichloroethene	ND	120	ND	660	227529	09/24/15
1,2-Dichloropropane	ND	120	ND	570	227529	09/24/15
Bromodichloromethane	ND	120	ND	830	227529	09/24/15
cis-1,3-Dichloropropene	ND	120	ND	560	227529	09/24/15
4-Methyl-2-Pentanone	ND	120	ND	510	227529	09/24/15

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Field ID:	SG-4	Units (M):	ug/m3
Lab ID:	269994-004	Diln Fac:	247.2
Matrix:	Air	Sampled:	09/21/15
Units (V):	ppbv	Received:	09/21/15

Analyte	Result (V)	RL	Result (M)	RL	Batch#	Analyzed
Toluene	ND	120	ND	470	227529	09/24/15
trans-1,3-Dichloropropene	ND	120	ND	560	227529	09/24/15
1,1,2-Trichloroethane	ND	120	ND	670	227529	09/24/15
Tetrachloroethene	ND	120	ND	840	227529	09/24/15
2-Hexanone	ND	120	ND	510	227529	09/24/15
Dibromochloromethane	ND	120	ND	1,100	227529	09/24/15
1,2-Dibromoethane	ND	120	ND	950	227529	09/24/15
Chlorobenzene	ND	120	ND	570	227529	09/24/15
Ethylbenzene	1,300	120	5,400	540	227529	09/24/15
m,p-Xylenes	360	120	1,600	540	227645	09/28/15
o-Xylene	ND	120	ND	540	227529	09/24/15
Styrene	ND	120	ND	530	227529	09/24/15
Bromoform	ND	120	ND	1,300	227529	09/24/15
1,1,2,2-Tetrachloroethane	ND	120	ND	850	227529	09/24/15
4-Ethyltoluene	ND	120	ND	610	227529	09/24/15
1,3,5-Trimethylbenzene	ND	120	ND	610	227529	09/24/15
1,2,4-Trimethylbenzene	ND	120	ND	610	227529	09/24/15
1,3-Dichlorobenzene	ND	120	ND	740	227529	09/24/15
1,4-Dichlorobenzene	ND	120	ND	740	227529	09/24/15
Benzyl chloride	ND	120	ND	640	227529	09/24/15
1,2-Dichlorobenzene	ND	120	ND	740	227529	09/24/15
1,2,4-Trichlorobenzene	ND	120	ND	920	227529	09/24/15
Hexachlorobutadiene	ND	120	ND	1,300	227529	09/24/15
Naphthalene	ND	490	ND	2,600	227529	09/24/15

Surrogate	%REC	Limits	Batch#	Analyzed
Bromofluorobenzene	94	80-121	227529	09/24/15

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227471
Units (V):	ppbv	Analyzed:	09/23/15
Diln Fac:	1.000		

Type: BS Lab ID: QC804844

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	10.00	9.811	98	70-130
Freon 114	10.00	9.864	99	70-130
Chloromethane	10.00	9.802	98	70-130
Vinyl Chloride	10.00	9.555	96	70-130
1,3-Butadiene	10.00	9.141	91	70-130
Bromomethane	10.00	10.13	101	70-130
Chloroethane	10.00	9.226	92	70-130
Trichlorofluoromethane	10.00	9.503	95	70-130
Acrolein	10.00	8.630	86	70-130
1,1-Dichloroethene	10.00	9.079	91	70-130
Freon 113	10.00	9.472	95	70-130
Acetone	10.00	8.969	90	70-130
Carbon Disulfide	10.00	8.497	85	70-130
Isopropanol	10.00	8.432	84	70-130
Methylene Chloride	10.00	8.653	87	70-130
trans-1,2-Dichloroethene	10.00	9.039	90	70-130
MTBE	10.00	9.073	91	70-130
n-Hexane	10.00	8.144	81	70-130
1,1-Dichloroethane	10.00	9.004	90	70-130
Vinyl Acetate	10.00	8.578	86	70-130
cis-1,2-Dichloroethene	10.00	8.735	87	70-130
2-Butanone	10.00	9.528	95	70-130
Ethyl Acetate	10.00	9.753	98	70-130
Tetrahydrofuran	10.00	11.30	113	70-130
Chloroform	10.00	9.172	92	70-130
1,1,1-Trichloroethane	10.00	10.30	103	70-130
Cyclohexane	10.00	9.658	97	70-130
Carbon Tetrachloride	10.00	8.699	87	70-130
Benzene	10.00	9.107	91	70-130
1,2-Dichloroethane	10.00	9.432	94	70-130
n-Heptane	10.00	9.279	93	70-130
Trichloroethene	10.00	9.322	93	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227471
Units (V):	ppbv	Analyzed:	09/23/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
1,2-Dichloropropane	10.00	9.838	98	70-130
Bromodichloromethane	10.00	9.595	96	70-130
cis-1,3-Dichloropropene	10.00	9.047	90	70-130
4-Methyl-2-Pentanone	10.00	10.40	104	70-130
Toluene	10.00	9.337	93	70-130
trans-1,3-Dichloropropene	10.00	8.982	90	70-130
1,1,2-Trichloroethane	10.00	10.65	106	70-130
Tetrachloroethene	10.00	9.587	96	70-130
2-Hexanone	10.00	9.407	94	70-130
Dibromochloromethane	10.00	9.162	92	70-130
1,2-Dibromoethane	10.00	9.853	99	70-130
Chlorobenzene	10.00	9.086	91	70-130
Ethylbenzene	10.00	9.020	90	70-130
m,p-Xylenes	20.00	19.97	100	70-130
o-Xylene	10.00	10.11	101	70-130
Styrene	10.00	10.01	100	70-130
Bromoform	10.00	6.112 b	61 *	70-130
1,1,2,2-Tetrachloroethane	10.00	9.384	94	70-130
4-Ethyltoluene	10.00	11.06	111	70-130
1,3,5-Trimethylbenzene	10.00	10.44	104	70-130
1,2,4-Trimethylbenzene	10.00	11.23	112	70-130
1,3-Dichlorobenzene	10.00	10.19	102	70-130
1,4-Dichlorobenzene	10.00	10.20	102	70-130
Benzyl chloride	10.00	9.459	95	70-130
1,2-Dichlorobenzene	10.00	9.710	97	70-130
1,2,4-Trichlorobenzene	10.00	8.616	86	70-130
Hexachlorobutadiene	10.00	7.942	79	70-130
Naphthalene	10.00	8.187	82	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227471
Units (V):	ppbv	Analyzed:	09/23/15
Diln Fac:	1.000		

Type: BSD Lab ID: QC804845

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	10.00	9.487	95	70-130	3	25
Freon 114	10.00	9.496	95	70-130	4	25
Chloromethane	10.00	9.212	92	70-130	6	25
Vinyl Chloride	10.00	9.343	93	70-130	2	25
1,3-Butadiene	10.00	8.896	89	70-130	3	25
Bromomethane	10.00	9.893	99	70-130	2	25
Chloroethane	10.00	8.699	87	70-130	6	25
Trichlorofluoromethane	10.00	9.404	94	70-130	1	25
Acrolein	10.00	8.586	86	70-130	1	25
1,1-Dichloroethene	10.00	9.062	91	70-130	0	25
Freon 113	10.00	9.313	93	70-130	2	25
Acetone	10.00	8.823	88	70-130	2	25
Carbon Disulfide	10.00	8.444	84	70-130	1	25
Isopropanol	10.00	8.903	89	70-130	5	25
Methylene Chloride	10.00	8.404	84	70-130	3	25
trans-1,2-Dichloroethene	10.00	9.219	92	70-130	2	25
MTBE	10.00	9.097	91	70-130	0	25
n-Hexane	10.00	8.264	83	70-130	1	25
1,1-Dichloroethane	10.00	8.957	90	70-130	1	25
Vinyl Acetate	10.00	8.429	84	70-130	2	25
cis-1,2-Dichloroethene	10.00	8.779	88	70-130	1	25
2-Butanone	10.00	9.538	95	70-130	0	25
Ethyl Acetate	10.00	9.420	94	70-130	3	25
Tetrahydrofuran	10.00	11.60	116	70-130	3	25
Chloroform	10.00	9.123	91	70-130	1	25
1,1,1-Trichloroethane	10.00	10.43	104	70-130	1	25
Cyclohexane	10.00	9.685	97	70-130	0	25
Carbon Tetrachloride	10.00	8.659	87	70-130	0	25
Benzene	10.00	9.214	92	70-130	1	25
1,2-Dichloroethane	10.00	9.350	94	70-130	1	25
n-Heptane	10.00	9.325	93	70-130	0	25
Trichloroethene	10.00	9.383	94	70-130	1	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227471
Units (V):	ppbv	Analyzed:	09/23/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
1,2-Dichloropropane	10.00	10.04	100	70-130	2	25
Bromodichloromethane	10.00	9.703	97	70-130	1	25
cis-1,3-Dichloropropene	10.00	9.375	94	70-130	4	25
4-Methyl-2-Pentanone	10.00	10.73	107	70-130	3	25
Toluene	10.00	9.088	91	70-130	3	25
trans-1,3-Dichloropropene	10.00	8.931	89	70-130	1	25
1,1,2-Trichloroethane	10.00	10.51	105	70-130	1	25
Tetrachloroethene	10.00	9.438	94	70-130	2	25
2-Hexanone	10.00	9.167	92	70-130	3	25
Dibromochloromethane	10.00	8.987	90	70-130	2	25
1,2-Dibromoethane	10.00	9.914	99	70-130	1	25
Chlorobenzene	10.00	8.662	87	70-130	5	25
Ethylbenzene	10.00	8.645	86	70-130	4	25
m,p-Xylenes	20.00	18.45	92	70-130	8	25
o-Xylene	10.00	9.487	95	70-130	6	25
Styrene	10.00	9.590	96	70-130	4	25
Bromoform	10.00	6.109 b	61 *	70-130	0	25
1,1,2,2-Tetrachloroethane	10.00	9.051	91	70-130	4	25
4-Ethyltoluene	10.00	10.57	106	70-130	5	25
1,3,5-Trimethylbenzene	10.00	10.17	102	70-130	3	25
1,2,4-Trimethylbenzene	10.00	10.48	105	70-130	7	25
1,3-Dichlorobenzene	10.00	9.726	97	70-130	5	25
1,4-Dichlorobenzene	10.00	9.625	96	70-130	6	25
Benzyl chloride	10.00	9.163	92	70-130	3	25
1,2-Dichlorobenzene	10.00	9.558	96	70-130	2	25
1,2,4-Trichlorobenzene	10.00	8.250	83	70-130	4	25
Hexachlorobutadiene	10.00	7.517	75	70-130	5	25
Naphthalene	10.00	8.065	81	70-130	2	25

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC804846	Diln Fac:	1.000
Matrix:	Air	Batch#:	227471
Units (V):	ppbv	Analyzed:	09/23/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC804846	Diln Fac:	1.000
Matrix:	Air	Batch#:	227471
Units (V):	ppbv	Analyzed:	09/23/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	95	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227528
Units (V):	ppbv	Analyzed:	09/24/15
Diln Fac:	1.000		

Type: BS Lab ID: QC805046

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	10.00	9.728	97	70-130
Freon 114	10.00	9.870	99	70-130
Chloromethane	10.00	9.580	96	70-130
Vinyl Chloride	10.00	9.612	96	70-130
1,3-Butadiene	10.00	8.966	90	70-130
Bromomethane	10.00	9.937	99	70-130
Chloroethane	10.00	8.597	86	70-130
Trichlorofluoromethane	10.00	9.593	96	70-130
Acrolein	10.00	8.783	88	70-130
1,1-Dichloroethene	10.00	8.895	89	70-130
Freon 113	10.00	9.835	98	70-130
Acetone	10.00	8.983	90	70-130
Carbon Disulfide	10.00	8.397	84	70-130
Isopropanol	10.00	8.484	85	70-130
Methylene Chloride	10.00	8.409	84	70-130
trans-1,2-Dichloroethene	10.00	9.057	91	70-130
MTBE	10.00	9.626	96	70-130
n-Hexane	10.00	9.423	94	70-130
1,1-Dichloroethane	10.00	9.078	91	70-130
Vinyl Acetate	10.00	8.640	86	70-130
cis-1,2-Dichloroethene	10.00	8.735	87	70-130
2-Butanone	10.00	9.842	98	70-130
Ethyl Acetate	10.00	9.819	98	70-130
Tetrahydrofuran	10.00	11.23	112	70-130
Chloroform	10.00	9.205	92	70-130
1,1,1-Trichloroethane	10.00	10.43	104	70-130
Cyclohexane	10.00	10.13	101	70-130
Carbon Tetrachloride	10.00	8.482	85	70-130
Benzene	10.00	9.280	93	70-130
1,2-Dichloroethane	10.00	9.049	90	70-130
n-Heptane	10.00	9.986	100	70-130
Trichloroethene	10.00	9.158	92	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227528
Units (V):	ppbv	Analyzed:	09/24/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
1,2-Dichloropropane	10.00	10.04	100	70-130
Bromodichloromethane	10.00	9.329	93	70-130
cis-1,3-Dichloropropene	10.00	8.891	89	70-130
4-Methyl-2-Pentanone	10.00	10.76	108	70-130
Toluene	10.00	9.358	94	70-130
trans-1,3-Dichloropropene	10.00	9.048	90	70-130
1,1,2-Trichloroethane	10.00	10.48	105	70-130
Tetrachloroethene	10.00	9.200	92	70-130
2-Hexanone	10.00	8.939	89	70-130
Dibromochloromethane	10.00	8.638	86	70-130
1,2-Dibromoethane	10.00	9.523	95	70-130
Chlorobenzene	10.00	8.657	87	70-130
Ethylbenzene	10.00	8.486	85	70-130
m,p-Xylenes	20.00	18.29	91	70-130
o-Xylene	10.00	9.228	92	70-130
Styrene	10.00	9.191	92	70-130
Bromoform	10.00	5.982 b	60 *	70-130
1,1,2,2-Tetrachloroethane	10.00	9.130	91	70-130
4-Ethyltoluene	10.00	10.26	103	70-130
1,3,5-Trimethylbenzene	10.00	9.494	95	70-130
1,2,4-Trimethylbenzene	10.00	10.31	103	70-130
1,3-Dichlorobenzene	10.00	9.389	94	70-130
1,4-Dichlorobenzene	10.00	9.213	92	70-130
Benzyl chloride	10.00	8.849	88	70-130
1,2-Dichlorobenzene	10.00	9.133	91	70-130
1,2,4-Trichlorobenzene	10.00	7.922	79	70-130
Hexachlorobutadiene	10.00	7.020	70	70-130
Naphthalene	10.00	7.503	75	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	99	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227528
Units (V):	ppbv	Analyzed:	09/24/15
Diln Fac:	1.000		

Type: BSD Lab ID: QC805047

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	10.00	9.731	97	70-130	0	25
Freon 114	10.00	9.833	98	70-130	0	25
Chloromethane	10.00	9.634	96	70-130	1	25
Vinyl Chloride	10.00	9.462	95	70-130	2	25
1,3-Butadiene	10.00	8.767	88	70-130	2	25
Bromomethane	10.00	10.03	100	70-130	1	25
Chloroethane	10.00	8.592	86	70-130	0	25
Trichlorofluoromethane	10.00	9.583	96	70-130	0	25
Acrolein	10.00	8.350	84	70-130	5	25
1,1-Dichloroethene	10.00	8.812	88	70-130	1	25
Freon 113	10.00	9.593	96	70-130	2	25
Acetone	10.00	8.828	88	70-130	2	25
Carbon Disulfide	10.00	8.191	82	70-130	2	25
Isopropanol	10.00	8.716	87	70-130	3	25
Methylene Chloride	10.00	8.434	84	70-130	0	25
trans-1,2-Dichloroethene	10.00	9.011	90	70-130	1	25
MTBE	10.00	9.221	92	70-130	4	25
n-Hexane	10.00	8.840	88	70-130	6	25
1,1-Dichloroethane	10.00	8.966	90	70-130	1	25
Vinyl Acetate	10.00	8.567	86	70-130	1	25
cis-1,2-Dichloroethene	10.00	8.405	84	70-130	4	25
2-Butanone	10.00	9.729	97	70-130	1	25
Ethyl Acetate	10.00	9.825	98	70-130	0	25
Tetrahydrofuran	10.00	11.33	113	70-130	1	25
Chloroform	10.00	9.109	91	70-130	1	25
1,1,1-Trichloroethane	10.00	10.35	103	70-130	1	25
Cyclohexane	10.00	9.959	100	70-130	2	25
Carbon Tetrachloride	10.00	8.567	86	70-130	1	25
Benzene	10.00	9.220	92	70-130	1	25
1,2-Dichloroethane	10.00	9.199	92	70-130	2	25
n-Heptane	10.00	10.12	101	70-130	1	25
Trichloroethene	10.00	9.423	94	70-130	3	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227528
Units (V):	ppbv	Analyzed:	09/24/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
1,2-Dichloropropane	10.00	9.887	99	70-130	2	25
Bromodichloromethane	10.00	9.538	95	70-130	2	25
cis-1,3-Dichloropropene	10.00	9.295	93	70-130	4	25
4-Methyl-2-Pentanone	10.00	11.08	111	70-130	3	25
Toluene	10.00	9.464	95	70-130	1	25
trans-1,3-Dichloropropene	10.00	9.129	91	70-130	1	25
1,1,2-Trichloroethane	10.00	10.28	103	70-130	2	25
Tetrachloroethene	10.00	9.690	97	70-130	5	25
2-Hexanone	10.00	9.426	94	70-130	5	25
Dibromochloromethane	10.00	8.757	88	70-130	1	25
1,2-Dibromoethane	10.00	9.554	96	70-130	0	25
Chlorobenzene	10.00	9.140	91	70-130	5	25
Ethylbenzene	10.00	9.028	90	70-130	6	25
m,p-Xylenes	20.00	19.26	96	70-130	5	25
o-Xylene	10.00	9.632	96	70-130	4	25
Styrene	10.00	9.810	98	70-130	7	25
Bromoform	10.00	5.907 b	59 *	70-130	1	25
1,1,2,2-Tetrachloroethane	10.00	9.400	94	70-130	3	25
4-Ethyltoluene	10.00	10.50	105	70-130	2	25
1,3,5-Trimethylbenzene	10.00	10.22	102	70-130	7	25
1,2,4-Trimethylbenzene	10.00	10.77	108	70-130	4	25
1,3-Dichlorobenzene	10.00	10.09	101	70-130	7	25
1,4-Dichlorobenzene	10.00	9.836	98	70-130	7	25
Benzyl chloride	10.00	9.388	94	70-130	6	25
1,2-Dichlorobenzene	10.00	9.582	96	70-130	5	25
1,2,4-Trichlorobenzene	10.00	8.138	81	70-130	3	25
Hexachlorobutadiene	10.00	7.712	77	70-130	9	25
Naphthalene	10.00	7.748	77	70-130	3	25

Surrogate	%REC	Limits
Bromofluorobenzene	103	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC805048	Diln Fac:	1.000
Matrix:	Air	Batch#:	227528
Units (V):	ppbv	Analyzed:	09/24/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC805048	Diln Fac:	1.000
Matrix:	Air	Batch#:	227528
Units (V):	ppbv	Analyzed:	09/24/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	92	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227529
Units (V):	ppbv	Analyzed:	09/24/15
Diln Fac:	1.000		

Type: BS Lab ID: QC805049

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	5.000	4.737	95	70-130
Freon 114	5.000	5.037	101	70-130
Chloromethane	5.000	5.277	106	70-130
Vinyl Chloride	5.000	4.766	95	70-130
1,3-Butadiene	5.000	4.657	93	70-130
Bromomethane	5.000	4.869	97	70-130
Chloroethane	5.000	3.939	79	70-130
Trichlorofluoromethane	5.000	4.901	98	70-130
Acrolein	5.000	4.099	82	70-130
1,1-Dichloroethene	5.000	5.069	101	70-130
Freon 113	5.000	5.384	108	70-130
Acetone	5.000	4.229	85	70-130
Carbon Disulfide	5.000	5.127	103	70-130
Isopropanol	5.000	3.703	74	70-130
Methylene Chloride	5.000	4.830	97	70-130
trans-1,2-Dichloroethene	5.000	5.797	116	70-130
MTBE	5.000	5.340	107	70-130
n-Hexane	5.000	5.352	107	70-130
1,1-Dichloroethane	5.000	5.068	101	70-130
Vinyl Acetate	5.000	4.798	96	70-130
cis-1,2-Dichloroethene	5.000	5.785	116	70-130
2-Butanone	5.000	4.744	95	70-130
Ethyl Acetate	5.000	5.512	110	70-130
Tetrahydrofuran	5.000	5.447	109	70-130
Chloroform	5.000	5.254	105	70-130
1,1,1-Trichloroethane	5.000	5.532	111	70-130
Cyclohexane	5.000	5.176	104	70-130
Carbon Tetrachloride	5.000	4.646	93	70-130
Benzene	5.000	5.436	109	70-130
1,2-Dichloroethane	5.000	5.274	105	70-130
n-Heptane	5.000	5.684	114	70-130
Trichloroethene	5.000	5.270	105	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227529
Units (V):	ppbv	Analyzed:	09/24/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
1,2-Dichloropropane	5.000	5.750	115	70-130
Bromodichloromethane	5.000	5.319	106	70-130
cis-1,3-Dichloropropene	5.000	5.522	110	70-130
4-Methyl-2-Pentanone	5.000	6.020	120	70-130
Toluene	5.000	6.383	128	70-130
trans-1,3-Dichloropropene	5.000	5.537	111	70-130
1,1,2-Trichloroethane	5.000	6.477	130	70-130
Tetrachloroethene	5.000	6.423	128	70-130
2-Hexanone	5.000	7.495 b	150 *	70-130
Dibromochloromethane	5.000	5.663	113	70-130
1,2-Dibromoethane	5.000	5.945	119	70-130
Chlorobenzene	5.000	6.324	126	70-130
Ethylbenzene	5.000	6.427	129	70-130
m,p-Xylenes	10.00	13.39 b	134 *	70-130
o-Xylene	5.000	6.729 b	135 *	70-130
Styrene	5.000	5.959	119	70-130
Bromoform	5.000	5.987	120	70-130
1,1,2,2-Tetrachloroethane	5.000	6.336	127	70-130
4-Ethyltoluene	5.000	6.117	122	70-130
1,3,5-Trimethylbenzene	5.000	5.557	111	70-130
1,2,4-Trimethylbenzene	5.000	5.453	109	70-130
1,3-Dichlorobenzene	5.000	5.804	116	70-130
1,4-Dichlorobenzene	5.000	5.462	109	70-130
Benzyl chloride	5.000	5.910	118	70-130
1,2-Dichlorobenzene	5.000	5.628	113	70-130
1,2,4-Trichlorobenzene	5.000	3.807	76	70-130
Hexachlorobutadiene	5.000	5.250	105	70-130
Naphthalene	5.000	4.011	80	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	91	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227529
Units (V):	ppbv	Analyzed:	09/24/15
Diln Fac:	1.000		

Type: BSD Lab ID: QC805050

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	5.000	4.819	96	70-130	2	25
Freon 114	5.000	5.104	102	70-130	1	25
Chloromethane	5.000	4.488	90	70-130	16	25
Vinyl Chloride	5.000	4.754	95	70-130	0	25
1,3-Butadiene	5.000	4.545	91	70-130	2	25
Bromomethane	5.000	4.923	98	70-130	1	25
Chloroethane	5.000	3.684	74	70-130	7	25
Trichlorofluoromethane	5.000	4.729	95	70-130	4	25
Acrolein	5.000	4.221	84	70-130	3	25
1,1-Dichloroethene	5.000	4.952	99	70-130	2	25
Freon 113	5.000	5.311	106	70-130	1	25
Acetone	5.000	3.859	77	70-130	9	25
Carbon Disulfide	5.000	5.196	104	70-130	1	25
Isopropanol	5.000	3.727	75	70-130	1	25
Methylene Chloride	5.000	4.726	95	70-130	2	25
trans-1,2-Dichloroethene	5.000	5.696	114	70-130	2	25
MTBE	5.000	5.600	112	70-130	5	25
n-Hexane	5.000	5.293	106	70-130	1	25
1,1-Dichloroethane	5.000	5.198	104	70-130	3	25
Vinyl Acetate	5.000	4.920	98	70-130	3	25
cis-1,2-Dichloroethene	5.000	5.914	118	70-130	2	25
2-Butanone	5.000	5.092	102	70-130	7	25
Ethyl Acetate	5.000	5.666	113	70-130	3	25
Tetrahydrofuran	5.000	5.529	111	70-130	1	25
Chloroform	5.000	5.314	106	70-130	1	25
1,1,1-Trichloroethane	5.000	5.501	110	70-130	1	25
Cyclohexane	5.000	5.399	108	70-130	4	25
Carbon Tetrachloride	5.000	4.717	94	70-130	2	25
Benzene	5.000	5.410	108	70-130	0	25
1,2-Dichloroethane	5.000	5.335	107	70-130	1	25
n-Heptane	5.000	5.865	117	70-130	3	25
Trichloroethene	5.000	5.341	107	70-130	1	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227529
Units (V):	ppbv	Analyzed:	09/24/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
1,2-Dichloropropane	5.000	5.805	116	70-130	1	25
Bromodichloromethane	5.000	5.393	108	70-130	1	25
cis-1,3-Dichloropropene	5.000	5.653	113	70-130	2	25
4-Methyl-2-Pentanone	5.000	6.126	123	70-130	2	25
Toluene	5.000	6.799	136 *	70-130	6	25
trans-1,3-Dichloropropene	5.000	5.561	111	70-130	0	25
1,1,2-Trichloroethane	5.000	6.677	134 *	70-130	3	25
Tetrachloroethene	5.000	6.848	137 *	70-130	6	25
2-Hexanone	5.000	8.163 b	163 *	70-130	9	25
Dibromochloromethane	5.000	6.096	122	70-130	7	25
1,2-Dibromoethane	5.000	6.341	127	70-130	6	25
Chlorobenzene	5.000	6.675	134 *	70-130	5	25
Ethylbenzene	5.000	6.945	139 *	70-130	8	25
m,p-Xylenes	10.00	14.34 b	143 *	70-130	7	25
o-Xylene	5.000	7.231 b	145 *	70-130	7	25
Styrene	5.000	6.213	124	70-130	4	25
Bromoform	5.000	6.372	127	70-130	6	25
1,1,2,2-Tetrachloroethane	5.000	6.855	137 *	70-130	8	25
4-Ethyltoluene	5.000	6.630	133 *	70-130	8	25
1,3,5-Trimethylbenzene	5.000	6.271	125	70-130	12	25
1,2,4-Trimethylbenzene	5.000	6.638	133 *	70-130	20	25
1,3-Dichlorobenzene	5.000	6.851	137 *	70-130	17	25
1,4-Dichlorobenzene	5.000	6.068	121	70-130	11	25
Benzyl chloride	5.000	6.515	130	70-130	10	25
1,2-Dichlorobenzene	5.000	6.513	130	70-130	15	25
1,2,4-Trichlorobenzene	5.000	6.094	122	70-130	46 *	25
Hexachlorobutadiene	5.000	6.762	135 *	70-130	25	25
Naphthalene	5.000	6.556	131 *	70-130	48 *	25

Surrogate	%REC	Limits
Bromofluorobenzene	91	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC805051	Diln Fac:	1.000
Matrix:	Air	Batch#:	227529
Units (V):	ppbv	Analyzed:	09/24/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC805051	Diln Fac:	1.000
Matrix:	Air	Batch#:	227529
Units (V):	ppbv	Analyzed:	09/24/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	85	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227579
Units (V):	ppbv	Analyzed:	09/25/15
Diln Fac:	1.000		

Type: BS Lab ID: QC805253

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	10.00	9.946	99	70-130
Freon 114	10.00	10.02	100	70-130
Chloromethane	10.00	9.437	94	70-130
Vinyl Chloride	10.00	9.648	96	70-130
1,3-Butadiene	10.00	9.057	91	70-130
Bromomethane	10.00	10.11	101	70-130
Chloroethane	10.00	9.092	91	70-130
Trichlorofluoromethane	10.00	9.628	96	70-130
Acrolein	10.00	8.400	84	70-130
1,1-Dichloroethene	10.00	8.921	89	70-130
Freon 113	10.00	9.603	96	70-130
Acetone	10.00	9.086	91	70-130
Carbon Disulfide	10.00	8.449	84	70-130
Isopropanol	10.00	8.537	85	70-130
Methylene Chloride	10.00	8.425	84	70-130
trans-1,2-Dichloroethene	10.00	9.224	92	70-130
MTBE	10.00	9.435	94	70-130
n-Hexane	10.00	8.891	89	70-130
1,1-Dichloroethane	10.00	8.980	90	70-130
Vinyl Acetate	10.00	8.748	87	70-130
cis-1,2-Dichloroethene	10.00	8.794	88	70-130
2-Butanone	10.00	9.875	99	70-130
Ethyl Acetate	10.00	9.900	99	70-130
Tetrahydrofuran	10.00	11.26	113	70-130
Chloroform	10.00	9.230	92	70-130
1,1,1-Trichloroethane	10.00	10.28	103	70-130
Cyclohexane	10.00	9.890	99	70-130
Carbon Tetrachloride	10.00	8.415	84	70-130
Benzene	10.00	9.111	91	70-130
1,2-Dichloroethane	10.00	9.246	92	70-130
n-Heptane	10.00	9.678	97	70-130
Trichloroethene	10.00	9.240	92	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227579
Units (V):	ppbv	Analyzed:	09/25/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
1,2-Dichloropropane	10.00	10.08	101	70-130
Bromodichloromethane	10.00	9.315	93	70-130
cis-1,3-Dichloropropene	10.00	9.153	92	70-130
4-Methyl-2-Pentanone	10.00	10.87	109	70-130
Toluene	10.00	9.241	92	70-130
trans-1,3-Dichloropropene	10.00	9.037	90	70-130
1,1,2-Trichloroethane	10.00	10.63	106	70-130
Tetrachloroethene	10.00	9.256	93	70-130
2-Hexanone	10.00	9.295	93	70-130
Dibromochloromethane	10.00	9.014	90	70-130
1,2-Dibromoethane	10.00	9.582	96	70-130
Chlorobenzene	10.00	8.885	89	70-130
Ethylbenzene	10.00	8.843	88	70-130
m,p-Xylenes	20.00	19.17	96	70-130
o-Xylene	10.00	9.592	96	70-130
Styrene	10.00	9.705	97	70-130
Bromoform	10.00	5.824 b	58 *	70-130
1,1,2,2-Tetrachloroethane	10.00	9.306	93	70-130
4-Ethyltoluene	10.00	10.50	105	70-130
1,3,5-Trimethylbenzene	10.00	10.06	101	70-130
1,2,4-Trimethylbenzene	10.00	10.88	109	70-130
1,3-Dichlorobenzene	10.00	9.906	99	70-130
1,4-Dichlorobenzene	10.00	9.620	96	70-130
Benzyl chloride	10.00	9.607	96	70-130
1,2-Dichlorobenzene	10.00	9.608	96	70-130
1,2,4-Trichlorobenzene	10.00	8.156	82	70-130
Hexachlorobutadiene	10.00	7.454	75	70-130
Naphthalene	10.00	7.948	79	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227579
Units (V):	ppbv	Analyzed:	09/25/15
Diln Fac:	1.000		

Type: BSD Lab ID: QC805254

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	10.00	9.958	100	70-130	0	25
Freon 114	10.00	9.981	100	70-130	0	25
Chloromethane	10.00	9.333	93	70-130	1	25
Vinyl Chloride	10.00	9.503	95	70-130	2	25
1,3-Butadiene	10.00	8.794	88	70-130	3	25
Bromomethane	10.00	9.943	99	70-130	2	25
Chloroethane	10.00	9.058	91	70-130	0	25
Trichlorofluoromethane	10.00	9.739	97	70-130	1	25
Acrolein	10.00	8.214	82	70-130	2	25
1,1-Dichloroethene	10.00	8.840	88	70-130	1	25
Freon 113	10.00	9.679	97	70-130	1	25
Acetone	10.00	8.941	89	70-130	2	25
Carbon Disulfide	10.00	8.253	83	70-130	2	25
Isopropanol	10.00	9.028	90	70-130	6	25
Methylene Chloride	10.00	8.360	84	70-130	1	25
trans-1,2-Dichloroethene	10.00	8.928	89	70-130	3	25
MTBE	10.00	9.141	91	70-130	3	25
n-Hexane	10.00	8.533	85	70-130	4	25
1,1-Dichloroethane	10.00	8.978	90	70-130	0	25
Vinyl Acetate	10.00	8.426	84	70-130	4	25
cis-1,2-Dichloroethene	10.00	8.485	85	70-130	4	25
2-Butanone	10.00	9.699	97	70-130	2	25
Ethyl Acetate	10.00	9.571	96	70-130	3	25
Tetrahydrofuran	10.00	11.73	117	70-130	4	25
Chloroform	10.00	9.050	91	70-130	2	25
1,1,1-Trichloroethane	10.00	10.50	105	70-130	2	25
Cyclohexane	10.00	9.877	99	70-130	0	25
Carbon Tetrachloride	10.00	8.573	86	70-130	2	25
Benzene	10.00	9.266	93	70-130	2	25
1,2-Dichloroethane	10.00	9.249	92	70-130	0	25
n-Heptane	10.00	9.751	98	70-130	1	25
Trichloroethene	10.00	9.408	94	70-130	2	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227579
Units (V):	ppbv	Analyzed:	09/25/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
1,2-Dichloropropane	10.00	10.14	101	70-130	1	25
Bromodichloromethane	10.00	9.477	95	70-130	2	25
cis-1,3-Dichloropropene	10.00	9.239	92	70-130	1	25
4-Methyl-2-Pentanone	10.00	11.02	110	70-130	1	25
Toluene	10.00	9.045	90	70-130	2	25
trans-1,3-Dichloropropene	10.00	9.152	92	70-130	1	25
1,1,2-Trichloroethane	10.00	10.12	101	70-130	5	25
Tetrachloroethene	10.00	9.134	91	70-130	1	25
2-Hexanone	10.00	9.205	92	70-130	1	25
Dibromochloromethane	10.00	8.516	85	70-130	6	25
1,2-Dibromoethane	10.00	9.494	95	70-130	1	25
Chlorobenzene	10.00	8.941	89	70-130	1	25
Ethylbenzene	10.00	8.895	89	70-130	1	25
m,p-Xylenes	20.00	19.07	95	70-130	1	25
o-Xylene	10.00	9.859	99	70-130	3	25
Styrene	10.00	10.09	101	70-130	4	25
Bromoform	10.00	5.672 b	57 *	70-130	3	25
1,1,2,2-Tetrachloroethane	10.00	9.046	90	70-130	3	25
4-Ethyltoluene	10.00	10.52	105	70-130	0	25
1,3,5-Trimethylbenzene	10.00	10.15	102	70-130	1	25
1,2,4-Trimethylbenzene	10.00	10.97	110	70-130	1	25
1,3-Dichlorobenzene	10.00	10.14	101	70-130	2	25
1,4-Dichlorobenzene	10.00	9.850	99	70-130	2	25
Benzyl chloride	10.00	9.696	97	70-130	1	25
1,2-Dichlorobenzene	10.00	9.865	99	70-130	3	25
1,2,4-Trichlorobenzene	10.00	8.353	84	70-130	2	25
Hexachlorobutadiene	10.00	7.767	78	70-130	4	25
Naphthalene	10.00	8.034	80	70-130	1	25

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC805255	Diln Fac:	1.000
Matrix:	Air	Batch#:	227579
Units (V):	ppbv	Analyzed:	09/25/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC805255	Diln Fac:	1.000
Matrix:	Air	Batch#:	227579
Units (V):	ppbv	Analyzed:	09/25/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	96	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227580
Units (V):	ppbv	Analyzed:	09/25/15
Diln Fac:	1.000		

Type: BS Lab ID: QC805256

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	5.000	4.833	97	70-130
Freon 114	5.000	5.173	103	70-130
Chloromethane	5.000	5.072	101	70-130
Vinyl Chloride	5.000	4.822	96	70-130
1,3-Butadiene	5.000	4.622	92	70-130
Bromomethane	5.000	4.927	99	70-130
Chloroethane	5.000	3.947	79	70-130
Trichlorofluoromethane	5.000	4.968	99	70-130
Acrolein	5.000	4.080	82	70-130
1,1-Dichloroethene	5.000	5.180	104	70-130
Freon 113	5.000	5.334	107	70-130
Acetone	5.000	4.183	84	70-130
Carbon Disulfide	5.000	5.231	105	70-130
Isopropanol	5.000	3.728	75	70-130
Methylene Chloride	5.000	4.851	97	70-130
trans-1,2-Dichloroethene	5.000	5.847	117	70-130
MTBE	5.000	5.636	113	70-130
n-Hexane	5.000	5.373	107	70-130
1,1-Dichloroethane	5.000	5.282	106	70-130
Vinyl Acetate	5.000	4.828	97	70-130
cis-1,2-Dichloroethene	5.000	5.906	118	70-130
2-Butanone	5.000	4.918	98	70-130
Ethyl Acetate	5.000	5.742	115	70-130
Tetrahydrofuran	5.000	5.452	109	70-130
Chloroform	5.000	5.438	109	70-130
1,1,1-Trichloroethane	5.000	5.453	109	70-130
Cyclohexane	5.000	5.288	106	70-130
Carbon Tetrachloride	5.000	4.496	90	70-130
Benzene	5.000	5.497	110	70-130
1,2-Dichloroethane	5.000	5.277	106	70-130
n-Heptane	5.000	5.638	113	70-130
Trichloroethene	5.000	5.141	103	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227580
Units (V):	ppbv	Analyzed:	09/25/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
1,2-Dichloropropane	5.000	5.682	114	70-130
Bromodichloromethane	5.000	5.402	108	70-130
cis-1,3-Dichloropropene	5.000	5.405	108	70-130
4-Methyl-2-Pentanone	5.000	6.036	121	70-130
Toluene	5.000	6.665 b	133 *	70-130
trans-1,3-Dichloropropene	5.000	5.439	109	70-130
1,1,2-Trichloroethane	5.000	6.702 b	134 *	70-130
Tetrachloroethene	5.000	6.722 b	134 *	70-130
2-Hexanone	5.000	7.814 b	156 *	70-130
Dibromochloromethane	5.000	6.047	121	70-130
1,2-Dibromoethane	5.000	6.234	125	70-130
Chlorobenzene	5.000	6.362	127	70-130
Ethylbenzene	5.000	6.739 b	135 *	70-130
m,p-Xylenes	10.00	13.95 b	139 *	70-130
o-Xylene	5.000	6.944 b	139 *	70-130
Styrene	5.000	6.120	122	70-130
Bromoform	5.000	6.232	125	70-130
1,1,2,2-Tetrachloroethane	5.000	6.666 b	133 *	70-130
4-Ethyltoluene	5.000	6.626 b	133 *	70-130
1,3,5-Trimethylbenzene	5.000	5.878	118	70-130
1,2,4-Trimethylbenzene	5.000	6.007	120	70-130
1,3-Dichlorobenzene	5.000	6.094	122	70-130
1,4-Dichlorobenzene	5.000	5.847	117	70-130
Benzyl chloride	5.000	6.360	127	70-130
1,2-Dichlorobenzene	5.000	6.062	121	70-130
1,2,4-Trichlorobenzene	5.000	5.179	104	70-130
Hexachlorobutadiene	5.000	6.345	127	70-130
Naphthalene	5.000	6.010	120	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	93	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227580
Units (V):	ppbv	Analyzed:	09/25/15
Diln Fac:	1.000		

Type: BSD Lab ID: QC805257

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	5.000	4.772	95	70-130	1	25
Freon 114	5.000	5.129	103	70-130	1	25
Chloromethane	5.000	4.694	94	70-130	8	25
Vinyl Chloride	5.000	4.767	95	70-130	1	25
1,3-Butadiene	5.000	4.642	93	70-130	0	25
Bromomethane	5.000	4.890	98	70-130	1	25
Chloroethane	5.000	3.897	78	70-130	1	25
Trichlorofluoromethane	5.000	4.921	98	70-130	1	25
Acrolein	5.000	4.157	83	70-130	2	25
1,1-Dichloroethene	5.000	5.117	102	70-130	1	25
Freon 113	5.000	5.385	108	70-130	1	25
Acetone	5.000	4.248	85	70-130	2	25
Carbon Disulfide	5.000	5.140	103	70-130	2	25
Isopropanol	5.000	3.581	72	70-130	4	25
Methylene Chloride	5.000	4.786	96	70-130	1	25
trans-1,2-Dichloroethene	5.000	5.657	113	70-130	3	25
MTBE	5.000	5.482	110	70-130	3	25
n-Hexane	5.000	5.304	106	70-130	1	25
1,1-Dichloroethane	5.000	5.176	104	70-130	2	25
Vinyl Acetate	5.000	4.793	96	70-130	1	25
cis-1,2-Dichloroethene	5.000	5.811	116	70-130	2	25
2-Butanone	5.000	4.811	96	70-130	2	25
Ethyl Acetate	5.000	5.673	113	70-130	1	25
Tetrahydrofuran	5.000	5.607	112	70-130	3	25
Chloroform	5.000	5.279	106	70-130	3	25
1,1,1-Trichloroethane	5.000	5.565	111	70-130	2	25
Cyclohexane	5.000	5.455	109	70-130	3	25
Carbon Tetrachloride	5.000	4.635	93	70-130	3	25
Benzene	5.000	5.525	111	70-130	1	25
1,2-Dichloroethane	5.000	5.353	107	70-130	1	25
n-Heptane	5.000	5.817	116	70-130	3	25
Trichloroethene	5.000	5.337	107	70-130	4	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227580
Units (V):	ppbv	Analyzed:	09/25/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
1,2-Dichloropropane	5.000	5.888	118	70-130	4	25
Bromodichloromethane	5.000	5.410	108	70-130	0	25
cis-1,3-Dichloropropene	5.000	5.458	109	70-130	1	25
4-Methyl-2-Pentanone	5.000	6.221	124	70-130	3	25
Toluene	5.000	6.467 b	129	70-130	3	25
trans-1,3-Dichloropropene	5.000	5.630	113	70-130	3	25
1,1,2-Trichloroethane	5.000	6.551 b	131 *	70-130	2	25
Tetrachloroethene	5.000	6.434 b	129	70-130	4	25
2-Hexanone	5.000	7.666 b	153 *	70-130	2	25
Dibromochloromethane	5.000	5.952	119	70-130	2	25
1,2-Dibromoethane	5.000	5.944	119	70-130	5	25
Chlorobenzene	5.000	6.270	125	70-130	1	25
Ethylbenzene	5.000	6.529 b	131 *	70-130	3	25
m,p-Xylenes	10.00	14.10 b	141 *	70-130	1	25
o-Xylene	5.000	6.906 b	138 *	70-130	1	25
Styrene	5.000	5.943	119	70-130	3	25
Bromoform	5.000	6.087	122	70-130	2	25
1,1,2,2-Tetrachloroethane	5.000	6.470 b	129	70-130	3	25
4-Ethyltoluene	5.000	6.660 b	133 *	70-130	1	25
1,3,5-Trimethylbenzene	5.000	6.562	131 *	70-130	11	25
1,2,4-Trimethylbenzene	5.000	6.488	130	70-130	8	25
1,3-Dichlorobenzene	5.000	6.226	125	70-130	2	25
1,4-Dichlorobenzene	5.000	6.020	120	70-130	3	25
Benzyl chloride	5.000	6.234	125	70-130	2	25
1,2-Dichlorobenzene	5.000	5.981	120	70-130	1	25
1,2,4-Trichlorobenzene	5.000	6.888	138 *	70-130	28 *	25
Hexachlorobutadiene	5.000	6.537	131 *	70-130	3	25
Naphthalene	5.000	7.949	159 *	70-130	28 *	25

Surrogate	%REC	Limits
Bromofluorobenzene	94	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC805258	Diln Fac:	1.000
Matrix:	Air	Batch#:	227580
Units (V):	ppbv	Analyzed:	09/25/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC805258	Diln Fac:	1.000
Matrix:	Air	Batch#:	227580
Units (V):	ppbv	Analyzed:	09/25/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	86	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227645
Units (V):	ppbv	Analyzed:	09/28/15
Diln Fac:	1.000		

Type: BS Lab ID: QC805532

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	10.00	9.417	94	70-130
Freon 114	10.00	9.625	96	70-130
Chloromethane	10.00	9.048	90	70-130
Vinyl Chloride	10.00	9.426	94	70-130
1,3-Butadiene	10.00	8.747	87	70-130
Bromomethane	10.00	9.846	98	70-130
Chloroethane	10.00	9.247	92	70-130
Trichlorofluoromethane	10.00	9.447	94	70-130
Acrolein	10.00	8.067	81	70-130
1,1-Dichloroethene	10.00	8.896	89	70-130
Freon 113	10.00	9.973	100	70-130
Acetone	10.00	8.946	89	70-130
Carbon Disulfide	10.00	8.300	83	70-130
Isopropanol	10.00	8.483	85	70-130
Methylene Chloride	10.00	8.346	83	70-130
trans-1,2-Dichloroethene	10.00	9.100	91	70-130
MTBE	10.00	9.682	97	70-130
n-Hexane	10.00	8.681	87	70-130
1,1-Dichloroethane	10.00	9.025	90	70-130
Vinyl Acetate	10.00	8.576	86	70-130
cis-1,2-Dichloroethene	10.00	8.540	85	70-130
2-Butanone	10.00	9.736	97	70-130
Ethyl Acetate	10.00	9.884	99	70-130
Tetrahydrofuran	10.00	11.57	116	70-130
Chloroform	10.00	9.076	91	70-130
1,1,1-Trichloroethane	10.00	10.76	108	70-130
Cyclohexane	10.00	10.68	107	70-130
Carbon Tetrachloride	10.00	8.220	82	70-130
Benzene	10.00	9.159	92	70-130
1,2-Dichloroethane	10.00	9.368	94	70-130
n-Heptane	10.00	10.07	101	70-130
Trichloroethene	10.00	9.678	97	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227645
Units (V):	ppbv	Analyzed:	09/28/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
1,2-Dichloropropane	10.00	10.46	105	70-130
Bromodichloromethane	10.00	9.510	95	70-130
cis-1,3-Dichloropropene	10.00	9.377	94	70-130
4-Methyl-2-Pentanone	10.00	11.68	117	70-130
Toluene	10.00	9.299	93	70-130
trans-1,3-Dichloropropene	10.00	9.233	92	70-130
1,1,2-Trichloroethane	10.00	10.95	110	70-130
Tetrachloroethene	10.00	9.825	98	70-130
2-Hexanone	10.00	9.317	93	70-130
Dibromochloromethane	10.00	8.684	87	70-130
1,2-Dibromoethane	10.00	9.965	100	70-130
Chlorobenzene	10.00	9.120	91	70-130
Ethylbenzene	10.00	9.123	91	70-130
m,p-Xylenes	20.00	18.99	95	70-130
o-Xylene	10.00	9.574	96	70-130
Styrene	10.00	9.871	99	70-130
Bromoform	10.00	5.667 b	57 *	70-130
1,1,2,2-Tetrachloroethane	10.00	9.847	98	70-130
4-Ethyltoluene	10.00	10.49	105	70-130
1,3,5-Trimethylbenzene	10.00	9.912	99	70-130
1,2,4-Trimethylbenzene	10.00	10.51	105	70-130
1,3-Dichlorobenzene	10.00	9.748	97	70-130
1,4-Dichlorobenzene	10.00	9.595	96	70-130
Benzyl chloride	10.00	9.482	95	70-130
1,2-Dichlorobenzene	10.00	9.294	93	70-130
1,2,4-Trichlorobenzene	10.00	8.210	82	70-130
Hexachlorobutadiene	10.00	7.485	75	70-130
Naphthalene	10.00	7.773	78	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	99	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227645
Units (V):	ppbv	Analyzed:	09/28/15
Diln Fac:	1.000		

Type: BSD Lab ID: QC805533

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	10.00	9.697	97	70-130	3	25
Freon 114	10.00	9.829	98	70-130	2	25
Chloromethane	10.00	9.300	93	70-130	3	25
Vinyl Chloride	10.00	9.519	95	70-130	1	25
1,3-Butadiene	10.00	8.961	90	70-130	2	25
Bromomethane	10.00	10.08	101	70-130	2	25
Chloroethane	10.00	9.661	97	70-130	4	25
Trichlorofluoromethane	10.00	9.598	96	70-130	2	25
Acrolein	10.00	8.069	81	70-130	0	25
1,1-Dichloroethene	10.00	9.011	90	70-130	1	25
Freon 113	10.00	9.986	100	70-130	0	25
Acetone	10.00	9.172	92	70-130	2	25
Carbon Disulfide	10.00	8.446	84	70-130	2	25
Isopropanol	10.00	9.193	92	70-130	8	25
Methylene Chloride	10.00	8.476	85	70-130	2	25
trans-1,2-Dichloroethene	10.00	9.173	92	70-130	1	25
MTBE	10.00	9.700	97	70-130	0	25
n-Hexane	10.00	8.830	88	70-130	2	25
1,1-Dichloroethane	10.00	9.201	92	70-130	2	25
Vinyl Acetate	10.00	8.688	87	70-130	1	25
cis-1,2-Dichloroethene	10.00	8.719	87	70-130	2	25
2-Butanone	10.00	10.00	100	70-130	3	25
Ethyl Acetate	10.00	10.05	101	70-130	2	25
Tetrahydrofuran	10.00	11.56	116	70-130	0	25
Chloroform	10.00	9.252	93	70-130	2	25
1,1,1-Trichloroethane	10.00	10.92	109	70-130	1	25
Cyclohexane	10.00	10.56	106	70-130	1	25
Carbon Tetrachloride	10.00	8.341	83	70-130	1	25
Benzene	10.00	9.235	92	70-130	1	25
1,2-Dichloroethane	10.00	9.315	93	70-130	1	25
n-Heptane	10.00	9.760	98	70-130	3	25
Trichloroethene	10.00	9.455	95	70-130	2	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	227645
Units (V):	ppbv	Analyzed:	09/28/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
1,2-Dichloropropane	10.00	10.53	105	70-130	1	25
Bromodichloromethane	10.00	9.687	97	70-130	2	25
cis-1,3-Dichloropropene	10.00	9.284	93	70-130	1	25
4-Methyl-2-Pentanone	10.00	11.54	115	70-130	1	25
Toluene	10.00	9.242	92	70-130	1	25
trans-1,3-Dichloropropene	10.00	9.215	92	70-130	0	25
1,1,2-Trichloroethane	10.00	10.66	107	70-130	3	25
Tetrachloroethene	10.00	9.751	98	70-130	1	25
2-Hexanone	10.00	9.812	98	70-130	5	25
Dibromochloromethane	10.00	8.860	89	70-130	2	25
1,2-Dibromoethane	10.00	10.06	101	70-130	1	25
Chlorobenzene	10.00	9.038	90	70-130	1	25
Ethylbenzene	10.00	8.873	89	70-130	3	25
m,p-Xylenes	20.00	19.16	96	70-130	1	25
o-Xylene	10.00	9.850	99	70-130	3	25
Styrene	10.00	9.956	100	70-130	1	25
Bromoform	10.00	5.573 b	56 *	70-130	2	25
1,1,2,2-Tetrachloroethane	10.00	9.610	96	70-130	2	25
4-Ethyltoluene	10.00	10.28	103	70-130	2	25
1,3,5-Trimethylbenzene	10.00	9.900	99	70-130	0	25
1,2,4-Trimethylbenzene	10.00	10.50	105	70-130	0	25
1,3-Dichlorobenzene	10.00	10.02	100	70-130	3	25
1,4-Dichlorobenzene	10.00	9.773	98	70-130	2	25
Benzyl chloride	10.00	9.276	93	70-130	2	25
1,2-Dichlorobenzene	10.00	9.595	96	70-130	3	25
1,2,4-Trichlorobenzene	10.00	8.200	82	70-130	0	25
Hexachlorobutadiene	10.00	7.600	76	70-130	2	25
Naphthalene	10.00	8.253	83	70-130	6	25

Surrogate	%REC	Limits
Bromofluorobenzene	95	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC805534	Diln Fac:	1.000
Matrix:	Air	Batch#:	227645
Units (V):	ppbv	Analyzed:	09/28/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC805534	Diln Fac:	1.000
Matrix:	Air	Batch#:	227645
Units (V):	ppbv	Analyzed:	09/28/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	89	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Fixed Gas Analysis

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	ASTM D1946
Matrix:	Air	Sampled:	09/21/15
Units:	ppmv	Received:	09/21/15
Units (Mol %):	MOL %	Analyzed:	09/22/15
Batch#:	227432		

Field ID: SG-1 Lab ID: 269994-001
Type: SAMPLE Diln Fac: 2.130

Analyte	Result	RL	Result (Mol %)	RL
Helium	2,700	2,100	0.27	0.21
Oxygen	120,000	2,100	12	0.21

Field ID: SG-2 Lab ID: 269994-002
Type: SAMPLE Diln Fac: 2.290

Analyte	Result	RL	Result (Mol %)	RL
Helium	5,100	2,300	0.51	0.23
Oxygen	90,000	2,300	9.0	0.23

Field ID: SG-3 Lab ID: 269994-003
Type: SAMPLE Diln Fac: 2.070

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Oxygen	75,000	2,100	7.5	0.21

Field ID: SG-4 Lab ID: 269994-004
Type: SAMPLE Diln Fac: 2.060

Analyte	Result	RL	Result (Mol %)	RL
Helium	3,300	2,100	0.33	0.21
Oxygen	130,000	2,100	13	0.21

Type: BLANK Diln Fac: 1.000
Lab ID: QC804703

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,000	ND	0.10
Oxygen	ND	1,000	ND	0.10

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Curtis & Tompkins, Ltd.

Aromatic / Petroleum Hydrocarbons in Air

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-3
Analyte:	Gasoline Range Organics C6-C12	Batch#:	227468
Matrix:	Air	Sampled:	09/21/15
Units (V):	ppbv	Received:	09/21/15
Units (M):	ug/m3	Analyzed:	09/23/15

Field ID	Type	Lab ID	Result (V)	RL	MDL	Result (M)	RL	MDL	Diln Fac
SG-1	SAMPLE	269994-001	65,000	2,100	240	270,000	8,700	970	42.60
SG-2	SAMPLE	269994-002	83,000	2,300	260	340,000	9,400	1,000	45.80
SG-3	SAMPLE	269994-003	6,400	100	12	26,000	420	47	2.070
SG-4	SAMPLE	269994-004	170,000	2,100	230	680,000	8,400	940	41.20
	BLANK	QC804834	ND	50	5.6	ND	200	23	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Fixed Gas Analysis

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	ASTM D1946
Matrix:	Air	Batch#:	227432
Units:	ppmv	Analyzed:	09/22/15
Diln Fac:	1.000		

Type: BS Lab ID: QC804700

Analyte	Spiked	Result	%REC	Limits
Helium	100,000	96,090	96	70-130
Oxygen		NA		

Type: BSD Lab ID: QC804701

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Helium	100,000	95,720	96	70-130	0	30
Oxygen		NA				

NA= Not Analyzed
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Fixed Gas Analysis

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	ASTM D1946
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC804702	Batch#:	227432
Matrix:	Air	Analyzed:	09/22/15
Units:	ppmv		

Analyte	Spiked	Result	%REC	Limits
Helium		NA		
Oxygen	2,000	1,831	92	70-130

NA= Not Analyzed

Curtis & Tompkins, Ltd.

Batch QC Report

Fixed Gas Analysis

Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	ASTM D1946
Field ID:	SG-1	Units (Mol %):	MOL %
Type:	SDUP	Diln Fac:	2.130
MSS Lab ID:	269994-001	Batch#:	227432
Lab ID:	QC804704	Sampled:	09/21/15
Matrix:	Air	Received:	09/21/15
Units:	ppmv	Analyzed:	09/22/15

Analyte	MSS Result	Result	RL	Result (Mol %)	RL	RPD	Lim
Helium	2,683	2,685	2,130	0.2685	0.2130	0	30
Oxygen	123,600	123,600	2,130	12.36	0.2130	0	30

RL= Reporting Limit
RPD= Relative Percent Difference
Result Mol %= Result in Mole Percent

Curtis & Tompkins, Ltd.

Batch QC Report

Aromatic / Petroleum Hydrocarbons in Air

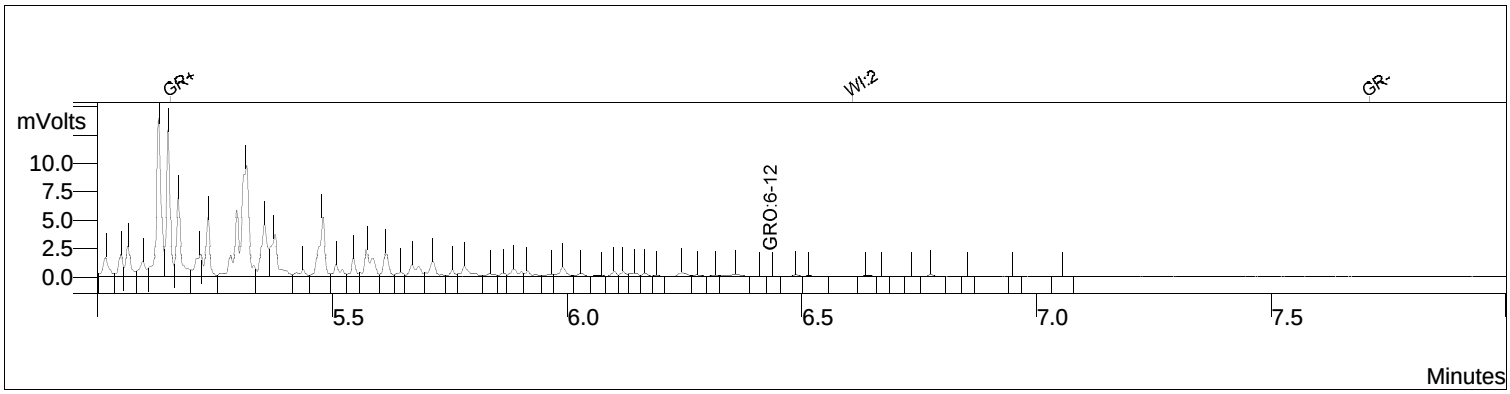
Lab #:	269994	Location:	Neishi Bros.
Client:	Almar Environmental	Prep:	METHOD
Project#:	1067C	Analysis:	EPA TO-3
Analyte:	Gasoline Range Organics C6-C12	Diln Fac:	1.000
Matrix:	Air	Batch#:	227468
Units (V):	ppbv	Analyzed:	09/23/15

Type	Lab ID	Spiked	Result (V)	%REC	Limits	RPD	Lim
BS	QC804832	210.0	149.9	71	70-130		
BSD	QC804833	210.0	150.0	71	70-130	0	25

RPD= Relative Percent Difference
Result V= Result in volume units

GRO by TO-3

Sample ID:	269994-001,227468		
Data File:	c:\varianws\data\092315\266_009.run		
Sample List:	c:\varianws\092315.smp		
Method:	c:\varianws\to3_103114.mth		
Acquisition Date:	09/23/2015 13:41:27		
Calculation Date:	09/23/2015 13:53:29		
Instrument ID:	MSAIR03	Operator:	TO-3
Injection Notes:	42.6x,c00274=c00262/20		
Multiplier:	1.000	Divisor:	1.000



Channel: Front = FID RESULTS

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.431	GRO:6-12	56709	1526.474
		Totals	**56709**	**1526.474**

Integration Parameters

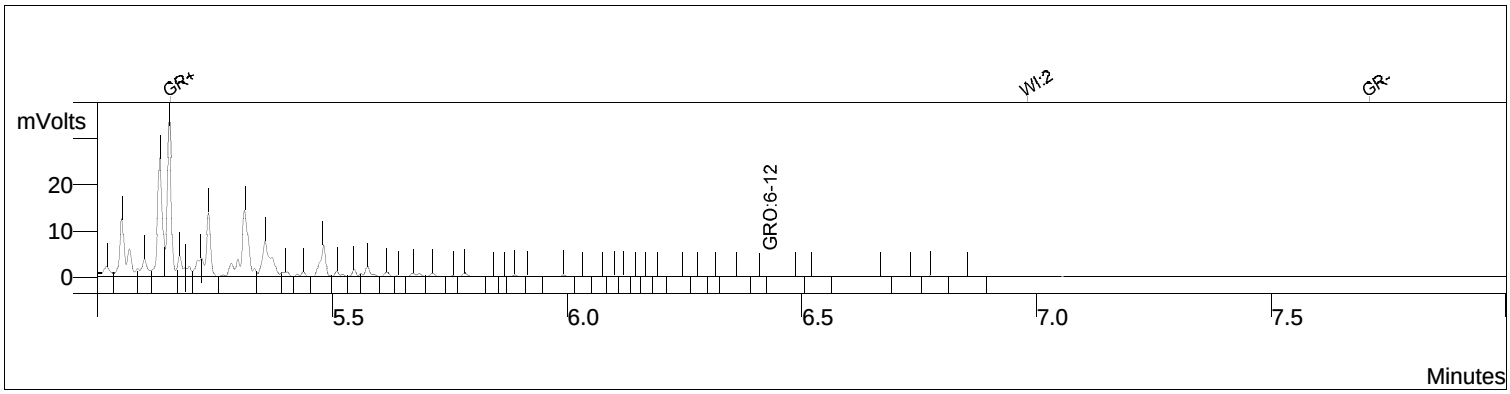
Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

Time (min)	Event
0.009	II on
4.801	II off
5.155	GR on
6.607	WI 2.0 sec
7.708	GR off

GRO by TO-3

Sample ID:	269994-002,227468		
Data File:	c:\varianws\data\092315\266_010.run		
Sample List:	c:\varianws\092315.smp		
Method:	c:\varianws\to3_103114.mth		
Acquisition Date:	09/23/2015 13:57:51		
Calculation Date:	09/23/2015 14:09:53		
Instrument ID:	MSAIR03	Operator:	TO-3
Injection Notes:	45.8x,c00187=c00080/20		
Multiplier:	1.000	Divisor:	1.000



Channel: **Front = FID** **RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.431	GRO:6-12	67695	1822.200
		Totals	**67695**	**1822.200**

Integration Parameters

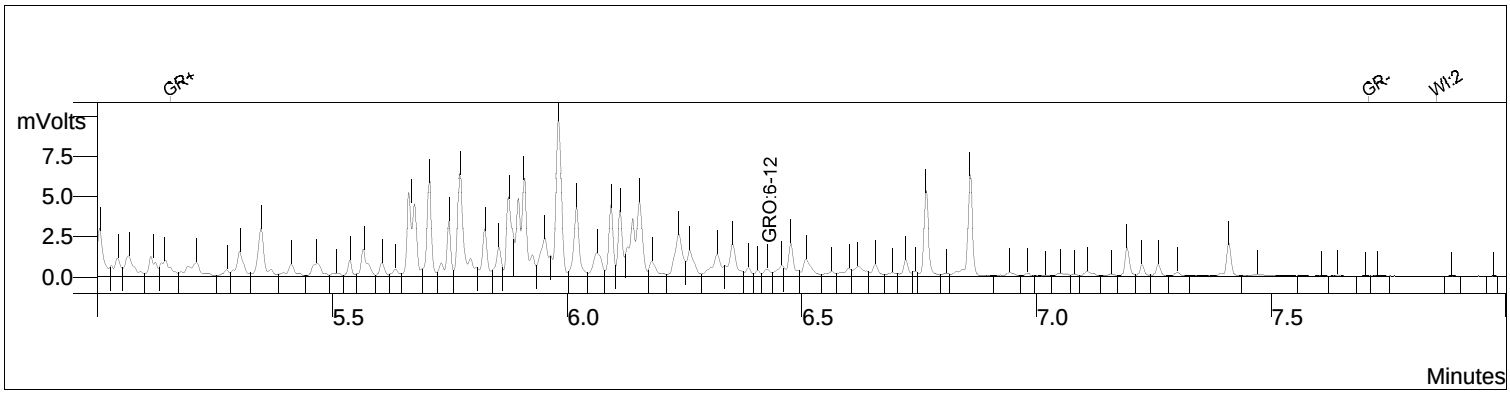
Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

Time (min)	Event
0.009	II on
4.801	II off
5.155	GR on
6.980	WI 2.0 sec
7.708	GR off

GRO by TO-3

Sample ID:	269994-003,227468		
Data File:	c:\varianws\data\092315\266_011.run		
Sample List:	c:\varianws\092315.smp		
Method:	c:\varianws\to3_103114.mth		
Acquisition Date:	09/23/2015 14:14:02		
Calculation Date:	09/23/2015 14:26:04		
Instrument ID:	MSAIR03	Operator:	TO-3
Injection Notes:	2.07x,c00257		
Multiplier:	1.000	Divisor:	1.000



Channel: **Front = FID** **RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.431	GRO:6-12	113985	3068.220
		Totals	**113985**	**3068.220**

Integration Parameters

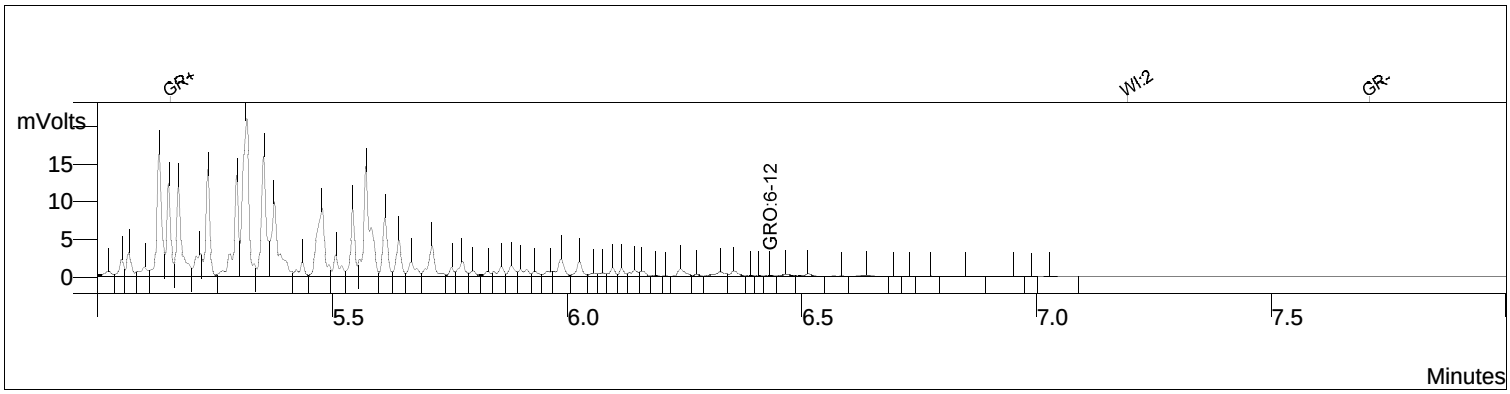
Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

Time (min)	Event
0.009	II on
4.801	II off
5.155	GR on
7.708	GR off
7.852	WI 2.0 sec

GRO by TO-3

Sample ID:	269994-004,227468		
Data File:	c:\varianws\data\092315\266_012.run		
Sample List:	c:\varianws\092315.smp		
Method:	c:\varianws\to3_103114.mth		
Acquisition Date:	09/23/2015 14:29:57		
Calculation Date:	09/23/2015 14:41:58		
Instrument ID:	MSAIR03	Operator:	TO-3
Injection Notes:	41.2x,c00378=c00337/20		
Multiplier:	1.000	Divisor:	1.000



Channel: **Front = FID** **RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.431	GRO:6-12	150903	4061.977
		Totals	**150903**	**4061.977**

Integration Parameters

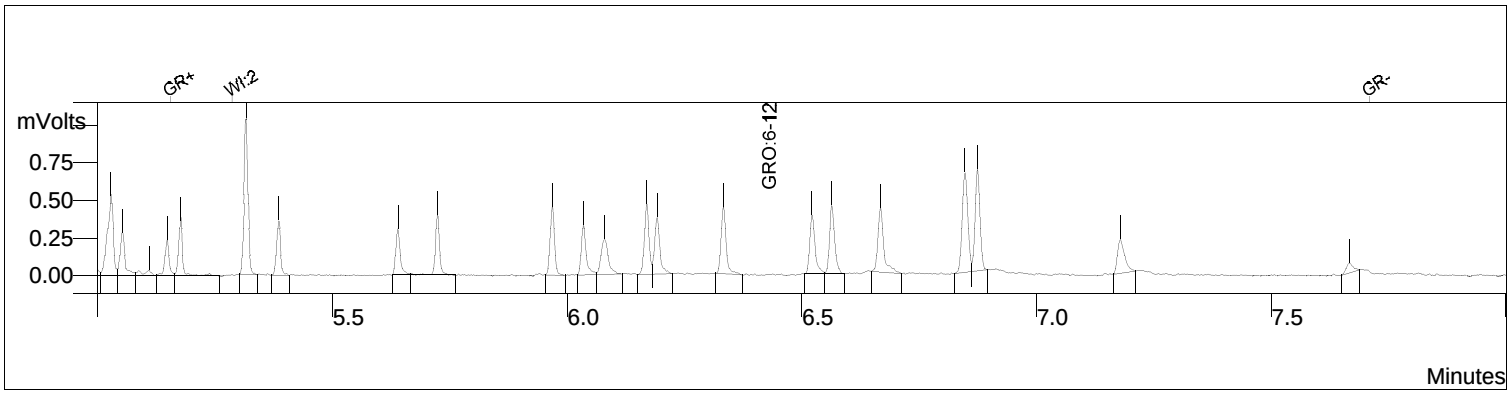
Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

Time (min)	Event
0.009	II on
4.801	II off
5.155	GR on
7.193	WI 2.0 sec
7.708	GR off

GRO by TO-3

Sample ID:	ccv/bs,qc804832		
Data File:	c:\varianws\data\092315\266_001.run		
Sample List:	c:\varianws\092315.smp		
Method:	c:\varianws\to3_103114.mth		
Acquisition Date:	09/23/2015 11:34:35		
Calculation Date:	09/23/2015 11:46:37		
Instrument ID:	MSAIR03	Operator:	TO-3
Injection Notes:	227468,s28015,1x		
Multiplier:	1.000	Divisor:	1.000



Channel: **Front = FID** **RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.431	GRO:6-12	5567	149.839
		Totals	**5567**	**149.839**

Integration Parameters

Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

Time (min)	Event
0.009	II on
4.801	II off
5.155	GR on
5.287	WI 2.0 sec
7.708	GR off