



REQUEST FOR QUALIFICATIONS

**TO PREPARE LANDSCAPE AND CIVIL CONTRACT
DOCUMENTS, PROJECT ESTIMATES AND PROVIDE
CONSTRUCTION SUPPORT FOR THE
RIVERTOWN COMMUNITY SPACE
(P.W. 514-7)**

Proposals Due: May 20, 2022 at 4:00 PM

Public Works Department
Capital Improvements Division
200 "H" Street
Antioch, CA 94509
(925) 779-7050

INTRODUCTION

The City of Antioch desires to retain the services of a qualified consulting firm or team with landscape architectural and civil engineering expertise to perform extensive community outreach, develop alternative concepts, prepare plans, specifications, and project estimates as well as provide construction support for improvements to the Antioch Lumber Company Yard that will transform the area into a family friendly public space. The City expects project design to be completed by summer of 2023.

The deadline for submission of qualifications for this work is 4:00 p.m., May 20, 2022.

BACKGROUND

The subject area is approximately three quarters of an acre in size and located to the northeast of the intersection of 'E' and West 3rd Streets and includes two parcels, APNs 006-055-001 and 066-041-004. This area was formerly utilized by the Antioch Lumber Company and believed to have included offices, storerooms, milling operations and lumber storage areas. Currently, the site is void of structures and contains sparse vegetation. A copy of the Phase II Environmental Site Assessment of the property that was completed on August 21, 2020 has been attached.

The successful consultant will be responsible for revitalizing this location by transforming it into a beautiful, public open space for all residents to enjoy. It is expected that this project will require collaborative efforts with the various City Boards and Commissions, residents and other stakeholders. The consultant will be required to participate in community engagement activities as necessary to keep the public and City Council informed of project progress.

SCOPE OF WORK

The selected Consultant shall be expected to perform all tasks required to design a complete project, including but not limited to, alternative analysis, engineering design, environmental permitting, utility coordination, surveying, public outreach, engineering support during the contract bidding and award process and engineering support services during the construction phase on an "as-needed" basis.

FORMAT OF THE STATEMENT OF QUALIFICATIONS

The submittal is to be prepared in a bound 8 ½" x 11" format limited to approximately 15 pages, including brochures. Covers, dividers are not included in the page count. In addition, any information that needs to be returned should not be submitted. The Consultant is requested to include the following information in the SOQ. It is expected that the SOQs will follow the order listed below:

- Cover Letter introducing the firm and describing why you want to be considered. Provide location of the office that will be performing the work
- Organization Chart for the Project Team
- Brief Information for Key Staff including education, directly related experience, description of their assignment on this project, and résumé
- A list of proposed sub-consultants, and a description of their proposed services
- Summary of the Company's Relative Experience and Performance
- Summary of Approach for Completing the Work
- Detailed Scope of Work of Activities Required
- List of contracts/agreements terminated for convenience or default within the past three years, if any.
List any litigation that now affects or may affect in the future consultant firm's ability to perform.
- Confirm your firms' ability to meet contract & insurance requirements.
- Anticipated Labor Effort by Task and Classification for Each Activity
- Milestone schedule for Project Completion

CONSULTANT SELECTION PROCESS

Enclosed is a copy of the City of Antioch's Consultant Service Agreement. By submitting a proposal for this work, a firm agrees to comply with all terms and conditions outlined in the agreement.

It is anticipated that from the proposals submitted, City staff will be able to select the firm best suited to meet the City's needs. However, if that is not possible, the City will ask a "short list" of firms to meet with staff to discuss the project and the firm's proposal. The City will negotiate a professional services contract for the work after staff has determined the best qualified firm.

No compensation will be due any firm for preparation of a written proposal or for meeting with staff after a "short list" has been determined.

The selected firm will receive a notice to proceed after the City Council has approved their contract.

CRITERIA FOR SELECTION

All proposals will be evaluated based on the criteria below.

- Qualifications and experience with similar projects - 30 points
- Understanding of the scope and potential challenges - 25 points
- References - 15 points
- Organization of proposal – 10 points
- Familiarity with applicable standards and procedures - 10 points
- Schedule of work - 10 points

SUBMISSION INSTRUCTIONS

Three (3) bound, and one (1) electronic copy of the proposal **must be submitted no later than 4:00 p.m. on May 20, 2022** to:

Scott Buenting
City of Antioch
Capital Improvements Division
200 H Street
Antioch, CA 94509

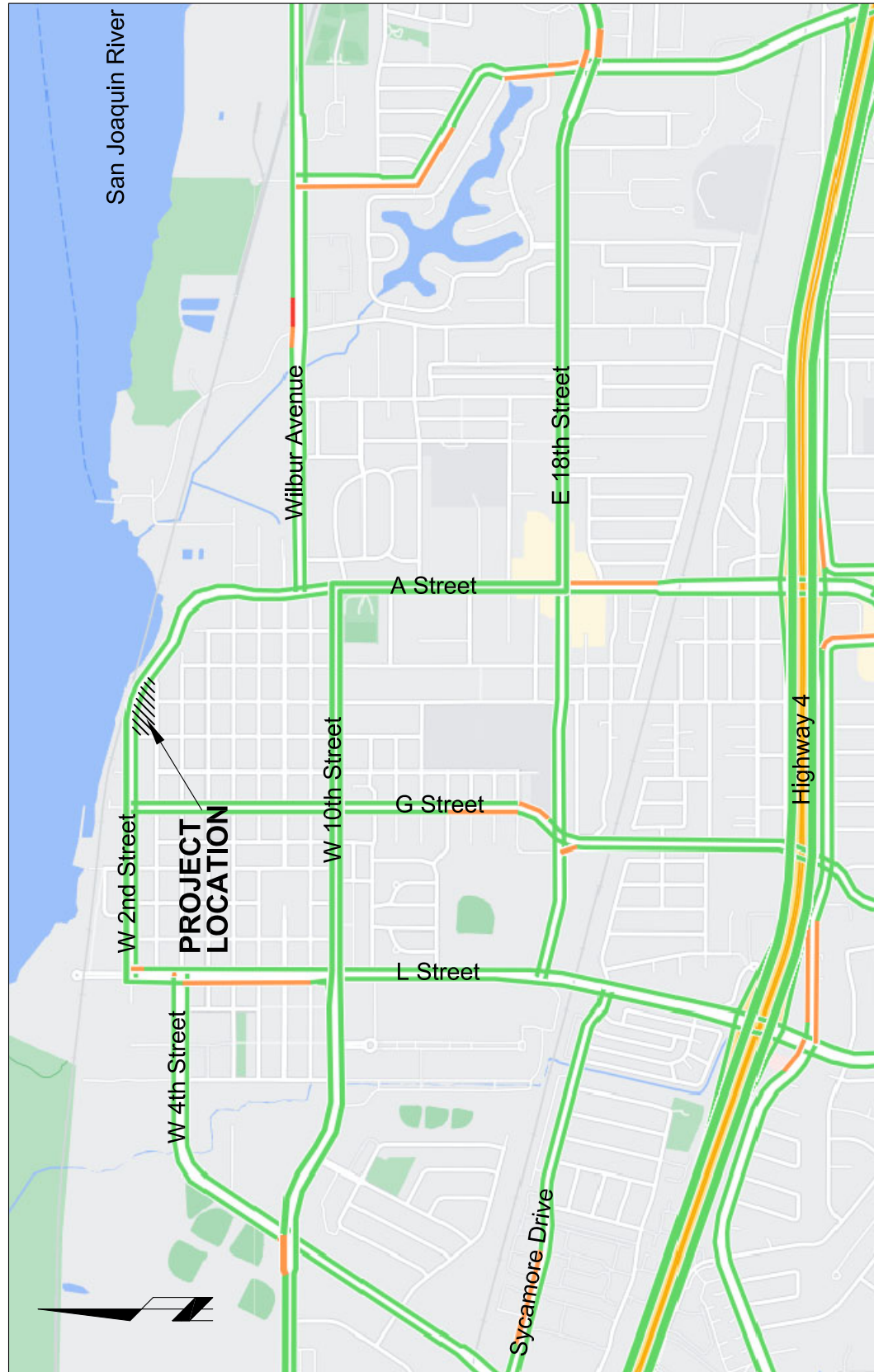
Interviews will be conducted if there is not an outstanding response, and two or three firms are very close in evaluation points. The City anticipates awarding the agreement for this work on June 14, 2022. Any questions regarding the above should be directed to Capital Improvements Division at (925) 779-7050; or cip@antiochca.gov.

Attachments

- A: *Vicinity Map*
B: *Phase II, Environmental Service Assessment*
C. *City of Antioch Consultant Services Agreement*

VICINITY MAP

ATTACHMENT "A"



**PHASE II ENVIRONMENTAL SITE
INVESTIGATION REPORT**

**For the
Antioch Lumber Company Yard
E Street at 2nd Street
Parcels #066055001 and 066041004
Antioch, California**

***Prepared for
the City of Antioch
by Trident Environmental and Engineering, Inc.
110 L Street, Suite 1
Antioch, CA 94509
www.tridenteng.com***



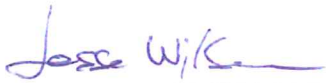
**August 31, 2020
Project No.: 19-042-01**

PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT

The material and data in this Report were prepared by or under the direction of the undersigned.

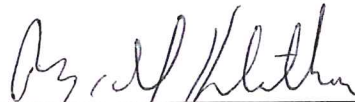
Trident Environmental and Engineering, Inc.

Prepared by:



Jesse Wilson EIT
Engineer III

Reviewed By:



Michael Heckathorn
Ca Registered Civil Engineer# 45775
Principal



Dani Renan, CA Professional Geologist
Registered Geologist - California P.G.
6107

August 31, 2020



Contents

1.0	INTRODUCTION	1
1.1	General.....	1
1.2	Site Description/ Background	1
1.3	Environmental Concerns.....	1
1.4	Objectives	2
2.0	GEOLOGIC AND HYDROGEOLOGIC SETTING	2
2.1	Geology.....	2
2.1.1	Regional	2
2.1.2	Local	2
2.1.4	Faulting and Seismicity.....	3
2.2	Hydrogeology	3
2.2.1	Local.....	3
2.2.2	Site.....	3
3.0	FIELD METHODOLOGY	4
3.1	General.....	4
3.1.1	Health and Safety	4
3.2	Soil Boring and Subsurface Assessment.....	4
3.2.1	Soil Sample Methodology Details.....	4
3.2.2	Soil Sampling Decontamination.....	5
3.2.3	Groundwater Sampling Methods	5
3.2.4	Groundwater Sampling Decontamination	6
4.0	LABORATORY ANALYSES	6
4.1	Soil and Groundwater Analyses.....	6
4.2	QA/QC Samples	6
4.3	Laboratory Methodology and Quality Assurance Program	6
5.0	INVESTIGATION FINDINGS	7
5.1	Subsurface Lithology	7
5.2	Hydrogeology	7
5.3	Analytical Results.....	8
5.3.1	Soil	8
5.3.2	Groundwater.....	9
6.0	SENSITIVE RECEPTORS.....	10
7.0	CONCLUSIONS AND RECOMMENDATIONS	11

LIMITATIONS.....	12
------------------	----

FIGURES

Figure 1:	Site Location Map
Figure 2:	Soil and Groundwater Boring Location Map
Figure 3:	Summary of Boring Log Findings and Significant Soil and Groundwater Sample Analytical Results
Figure 4:	Photos of Groundwater Sample Bottles for HP1, HP1A TPH Scan

TABLES

Table 1:	Analytical Methods
Table 2:	Sample and Analysis Matrix
Table 3a:	Sample Analytical Results for Metals in Soil
Table 3b:	Sample Analytical Results for Organics in Soil
Table 4a:	Sample Analytical Results for Metals in Groundwater
Table 4b:	Sample Analytical Results for Organics in Groundwater
Table 5:	Non-Detect Limits

APPENDICES

- I. Drilling Permits / USA Tickets
- II. Soil Boring Logs
- III. Laboratory Analytical Results, ESLs and Chain of Custody
HP-1 Groundwater Sample Rerun Results
Chromatographs for Soil and Groundwater Samples

1.0 INTRODUCTION

1.1 General

This Phase II Environmental Site Investigation Report (Report) has been prepared on behalf of the City of Antioch (hereinafter referred to as the “City”) by Trident Environmental and Engineering, Inc. (Trident). This report is for field work, sampling, and associated laboratory analyses that were performed as part of a Phase II Environmental Site Investigation of two parcels owned by the City, on July 14, 2020. The purpose of the work was to evaluate current soil and groundwater conditions at the site to plan site usage.

1.2 Site Description/ Background

The Property that was investigated is the former Antioch Lumber Company Yard, (Figure 1). It consists of portions of two parcels that are currently owned by the City in downtown Antioch. The Property is defined as the entire West Parcel and a 0.3-acre portion of the East Parcel, as shown on Figure 2. The Parcels are vacant gravel covered lots. No structures are present.

Parcel #066055001 - the West Parcel

The parcel is rectangular and is bordered on the north by 2nd Street, on the west by E Street, the south by 3rd Street, and on the east by the extension of D Street. Borings 1 - 6 were located here.

Parcel #066041004 - The East Parcel

Only the extreme western area of Parcel #066041004 is part of the property of concern. The area is triangular and is bordered on the west by the extension of D Street, the south by 3rd Street, and the northwest by A Street. Boring 7 was located here.

Both parcels are zoned Commercial. Surrounding properties are a mix of commercial and residential properties. A map showing the general Site location is presented as Figure 1. A detailed map illustrating the main features of the Property and borings is provided on Figure 2.

The Parcels have a long history of use as a lumber yard. The Phase I Report has a thorough history. The City is interested in possibly redeveloping the Property.

1.3 Environmental Concerns

Trident completed Phase I ESA's for the Property on October 22, 2019 and February 2020 that identified the following Recognized Environmental Conditions (RECs):

- The historical use as a lumber yard.
- The adjoining property had the historical presence of a gasoline petroleum tank in immediately adjacent portions of the railroad right-of-way.

To determine if legacy environmental impacts remain at the Site, Trident recommended that a Phase II investigation be completed. Common contaminants related with these RECs include volatile organic compounds (VOCs), metals (in particular, arsenic, chromium and similar metals) and wood preservatives. See Trident Site-Specific Sampling and Analysis Plan dated February 28, 2020.

1.4 Objectives

The purpose of the Phase II sampling work is to evaluate if historical use of the Property or adjacent land resulted in soil or groundwater contamination at the Property. This assessment will determine if the Lumber Yard that formerly operated on the Property resulted in a release to soil, and evaluate the type and extent. The results of the sampling conducted by Trident are being provided to the City to determine redevelopment options with respect to potential contaminated materials management.

Following are key observations by Trident, relevant to developing a scope for assessment activities:

- **General constituents of concern** – The primary constituents of concern were potential wood preservatives, related to historical presence of a lumber yard, which were the focus for assessment activities. Wood treatment chemicals that may have been released, and petroleum products were the target of the sampling and analyses in soil and groundwater in this Phase of the investigation
- **Assessment of potential historical release areas** – Based on historical Property and adjacent land use, Trident has investigated both parcels.

2.0 GEOLOGIC AND HYDROGEOLOGIC SETTING

2.1 Geology

The following geological information was provided in the report “Geotechnical Investigation Report, Delta Cove, Antioch, California”, dated June 2, 1993, by Kleinfelder.

2.1.1 Regional

The site is located in the Diablo Range member of the Coast Range Geologic Province, which consists of several series of northwest trending mountains and valleys. The region has undergone a complex geologic history of sedimentation, volcanism, folding, faulting, uplift, and erosion. Bedrock outcrops were not mapped in the vicinity of the site. The bedrock consists of non-marine sedimentary and probably volcanic rocks.

2.1.2 Local

The Site is located within the Rancho Los Medanos Basin which is situated along the southern banks of the San Joaquin River and the northern flank of Mount Diablo. The regional topography in the Rancho Los Medanos Basin is relatively flat. This basin is characterized by rolling hills, rounded slopes, and broad valleys dissected by ephemeral streams. The prominent geologic structure in the vicinity of the site is the Mount Diablo Mountains with elevations ranging from 900 to 3,849 feet.

“In general, the site is located on reclaimed land along the south bank of the San Joaquin River. According to T.H. Nilsen and J.D. Sims (1975), the site is underlain by marshland and alluvial terrace deposits. The thicknesses of the deposits are not known but is estimated to be on the order of 20 to 200 feet”.

2.1.3 Site

An on-site investigation was conducted by *Trident* on July 10, 2020 and included advancing seven soil borings to a maximum depth of 15 feet below grade. Soils encountered in the borings consisted of fill material (silt with fine-grained to coarse-grained gravel) from the surface to approximately 4 feet below grade and silty clay/clayey silt or silty clay to the maximum depth explored in each boring.

2.1.4 Faulting and Seismicity

“The site and the entire San Francisco Bay Area are seismically dominated by the presence of the active San Andreas Fault system”. This fault system is the general boundary between the northwestward moving North American Plate (east of the fault) and the faster northwestward moving Pacific Plate (west of the fault). The site is on the North American plate.

In the Bay Area, this movement is distributed across a complex system of generally strike-slip, right lateral parallel and sub-parallel faults, which include the San Andreas, and its associated side branches the Hayward, and Calaveras Faults, among others.

In the immediate vicinity of the site, the active Concord Fault is located approximately 12 miles to the southwest. The active Calaveras, Hayward, and San Andreas Faults lay approximately 17.5, 25.5, and 44 miles to the southwest, respectively. Several other active faults in the area include the active Greenville Fault located 7 miles to the southeast and Green Valley Fault located 24 miles to the northwest. It is noted that because of the lack of geological evidence, the California Division of Mine and Geology (CDMG) no longer considers the Antioch Fault as an active fault and is removing the Antioch Fault from their special study program. The site is not located within the California Alquist-Priolo Special Study Zone and no mapped fault traces are known to transverse the site. Therefore, the risk of having ground rupture within the limits of the site is considered to be low.

2.2 Hydrogeology

2.2.1 Local

The nearby A Street extension wells (approximately 650 feet east of the site), are at the same approximate ground elevation, 10 to 14 feet above Mean Sea Level (MSL), and at approximately the same distance of about 150 feet from the San Joaquin River as the site. The depth to groundwater in wells MW-2 and MW-3 at the A Street extension property ranges from about 4 to 6.5 feet below grade, which is less than 3 to 5.7 feet above MSL. Based on surface topography, groundwater flow direction beneath the site vicinity is assumed to flow to the north towards the San Joaquin River.

2.2.2 Site

During the site investigation on July 10, 2020, groundwater was encountered in two borings (SB-1 and SB-7) at depths of 13 to 13.5 feet below grade. Site-specific groundwater flow direction is unknown.

3.0 FIELD METHODOLOGY

Prior to commencing field work, Trident personnel prepared a Work Plan and Health and Safety Plan, obtained boring permits from the Contra Costa County Environmental Health Division (CCCEHD), and contacted Underground Service Alert (USA) for underground utility location. USA tickets are attached as Appendix I. Drilling permits were obtained from the Contra Costa County Health Department, Land Use Division (see Appendix I).

On July 10, 2020, Trident oversaw Cascade Drilling Company using Geoprobe direct push technology for soil and groundwater sample collection from boreholes at the site. Mr. Robert Gribben of the Contra Costa County Environmental Health Department (CCCEHD) gave permission to complete and grout the boreholes without his onsite observation.

3.1 General

Sampling borings and analyses were based on the environmental concerns and assessment requirements detailed in Sections 1.3 and 2.2, respectively, of the Phase I Report. Soil samples were collected from all seven of the boreholes. An attempt was made to collect a groundwater sample from four of the seven boreholes, however, groundwater only entered two of the boreholes for groundwater sample collection.

Table 2, the Sample and Analysis Matrix, presents the type of sample, soil or groundwater, taken at each boring (SB 1 – SB 7), and the analyses run.

Investigative-derived waste (i.e. soil cuttings and fluids) was placed into a labeled five-gallon container. Appropriate disposal by the City of the waste was determined based on the results of laboratory analyses.

3.1.1 Health and Safety

A site specific HSS plan was submitted to the CCCEDH, approved, and followed.

3.2 Soil Boring and Subsurface Assessment

The soil assessment included seven (7) soil borings advanced using direct-push soil sampling equipment. Boring locations and depths were chosen after considering specific environmental concerns within each area. Soil samples (designated **SB**) were collected and analyzed with reference to Table 2, the Sample and Analysis Matrix. At each boring, the geoprobe penetrated to 15 feet bgs unless **soil refusal** occurred (refusals are noted in the boring logs, Appendix II).

The depth that each soil sample was taken is encoded in the sample's name, after the hyphen. For example, "**SB 2 – 5**" was taken from boring 2 at five feet bgs. This convention is used in Table 2 and in the presentation of the analytical results.

The laboratory analyses are presented in Table 1.

3.2.1 Soil Sample Methodology Details

The site was divided by a grid into seven (7) cells (areas). For sample borings, see Figure 2.

Soil Sampling was conducted on July 10th by Lita Freeman, California Professional Geologist and Jesse Wilson E.I.T., as follows:

A geoprobe rig was used to obtain two (2) soil samples at a depth of 2 and 5 feet below grade, at all seven (7) boring locations for a total of fourteen (14) soil samples. Samples were taken from the center of each cell in the grid. Samples and cuttings obtained during drilling were classified and logged according to the Unified Soils Classification System (USCS) by the onsite geologist, Lita Freeman P.G., and described in terms of color, texture, plasticity, mineralogy, and moisture.

The soil samples were collected in a geoprobe liner. Immediately following collection, soil samples were checked with a photoionization detector (PID) for volatile organic compounds (VOCs) and then logged. They were placed in containers and stored on ice in a cooler. Any visual evidence of contamination was noted on the boring log. Soil samples were submitted to the Laboratory in accordance with Standard Chain of Custody procedures, on the same day of collection. Soil boring logs with groundwater data and PID results are presented in Appendix II.

Soil sampling equipment such as drilling tools were decontaminated prior to arrival on-site and between each boring location. Soil borings were sealed in accordance with Code by backfilling with neat cement after completion of drilling and soil sampling, in reference to the attached permit.

3.2.2 Soil Sampling Decontamination

The driller used thoroughly steam-cleaned equipment prior to drilling the well boreholes. The driller also decontaminated the sampling equipment used for obtaining soil samples between each boring location, and any non-dedicated equipment that might come in contact with soil or groundwater.

The waste soil cuttings and samples were collected in a 5-gallon container, sealed, labeled, and stored at Trident pending the completion of laboratory analysis and determination of disposal restrictions, if any. As appropriate, waste soil was handled, transported, and disposed per Federal and State requirements by the City. The generator of the waste was the City of Antioch.

After each sampling event, the plastic-sleeved soil cores were placed on a plastic covered work surface. The geologist selected the appropriate core to preserve and submit to the laboratory. The sleeved core was then covered at both ends with Teflon® foil, capped, labeled, and then placed on ice in a cooler pending delivery to a State-certified laboratory.

Soil samples were collected in accordance with the Sampling Procedures and Quality Assurance/Quality Control (QA/QC) Plan, which is available upon request. To prevent cross contamination between samples, nitrile gloves (worn while sampling) were changed after each sampling and sampling equipment was decontaminated.

3.2.3 Groundwater Sampling Methods

At four (4) of the selected borings, a hydropunch was employed from 0 to 15 feet for groundwater sampling. The selected borings designated “HP”, and the analyses run are given in Table 2. However, only two groundwater samples could be taken due to soil refusal in Borings 1 and 5. Depths to groundwater were measured upon stabilization, when and where possible. Upon stabilization, water samples were obtained via peristaltic pump. The subsurface silty soil documented at the Site allowed sufficient groundwater to accumulate in the in the two borings.

The measured groundwater levels were used to document the approximate depth to groundwater at the Property. Measurement of groundwater depth is often limited by the small diameter of the

probe itself, capillary movement, and inconsistencies of the water bearing zone. In addition, note that the site could be susceptible to the river tides that can vary up to 5 feet, due to the close proximity to the river.

After measuring the groundwater levels, the driller pumped the groundwater from the boreholes. Groundwater samples were collected using a peristaltic pump and containerized in laboratory-supplied bottles. Appropriate gloves were worn while sampling and changed between wells. The field geologist labeled each sample container and completed field documentation and chain-of-custody records following the procedures specified in the Work Plan. Table 3 presents the sampling data including, groundwater sampling data.

3.2.4 Groundwater Sampling Decontamination

With the use of disposable tubing, decontamination was unnecessary. To ensure that samples collected are representative and that cross-contamination did not occur, the field geologist decontaminated all re-usable equipment with Alconox and water and with distilled water and changed nitrile gloves before sampling each well.

4.0 LABORATORY ANALYSES

McC Campbell Analytical – a State-Certified Laboratory in Pittsburg, California – analyzed the samples in accordance with State and Federal sampling and analysis methodologies. Specifics of the methods, including analytical procedure, accuracy and precision of the methods, limitations on sample retention and other factors, and quality assurance information are available from the laboratory.

4.1 Soil and Groundwater Analyses

McC Campbell Laboratory in Pittsburg, CA supplied the appropriate containers. The collected soil and groundwater samples were analyzed per the EPA Methods presented in Table 1, and the type, location, depth, medium, and type of analysis is presented in Table 2.

4.2 QA/QC Samples

For the Quality Assurance/Quality Control (QA/QC), duplicate samples from each media were collected and analyzed. The duplicates were analyzed for CAM 17 metals and the TPH scan.

4.3 Laboratory Methodology and Quality Assurance Program

Soil and groundwater samples were analyzed by McC Campbell Analytical Laboratory in accordance with State and Federal sampling and analysis methodologies. McC Campbell Analytical Inc., of Pittsburg, California is accredited by the California DHS. Their laboratory quality assurance information contains specifics of the methods, including analytical procedure, accuracy and precision of the methods, limitations on sample retention and other factors. It is available through the laboratory.

5.0 INVESTIGATION FINDINGS

Investigative findings for this Site Investigation Report include subsurface lithology, hydrogeology, and soil and groundwater levels of the constituents of concern. Data presented include:

A Map of boring locations for soil and ground water sampling is presented as Figure 2.

Soil Boring Logs are presented in Appendix II.

A Summary of Boring Log Findings and Significant Soil and Groundwater Sample Analytical Results is presented as Figure 3. This shows the areas of contamination.

Tables summarizing analytical results for soil and groundwater samples, and comparing the results to applicable soil and groundwater standards, are presented in Tables 3 and 4. Results are compared to applicable soil and groundwater standards.

5.1 Subsurface Lithology

Detailed field descriptions of the geotechnical findings are presented in Appendix II, Soil Boring Logs. Boring locations are shown in Figure 2.

The surface soil, ranging from 1 foot thickness (in SB-3, SB-4, SB-6, and SB-7) to 4 feet thick (in SB-1) is imported fill consisting mainly of fine to course grained gravels. SB-1 has a 2-inch lens of black gravel (possibly slag). SB-7 has some brick fragments. There is no information on when the fill was imported, or the source of the material. It may be as recent as from the construction of the "A" St. extension, built in the early 2000s.

In SB-1 and SB-2 the underlying soils are silty clay to clayey silt (*CL/ML*), dry to very stiff. The other borings have low to medium plasticity, dry, medium stiff silty clay (*CL/CH*).

At or below 10 feet bgs, the soils are hard and resistant to drilling. In SB-2 and SB-5 there was refusal at 14-15 feet bgs.

5.2 Hydrogeology

In the four borings that were drilled to 15 feet depth, the soils were found to be moist at between 8 to 11 feet bgs. However only in SB-1 and SB-7 was there sufficient water to create a "water table" at 13 to 13.5 feet bgs.

With only two borings with sufficient groundwater there is not enough information to establish groundwater flow direction. However, the groundwater in SB-7 rose to 5.81 feet bgs, after nearly three hours. This indicates a serious change in the hydrological pressure regime, most likely due to tidal fluctuations in the river or (abated by) earth tides. (Earth tides are highly unlikely given the soil's stiffness).

During a previous drilling event by Trident (July 25 and 26, 2001) at the nearby tank excavation site just directly east of the subject site, first-encountered groundwater was noted at approximately 15 to 20 feet bgs. Several hours after installing the wells, the field geologist measured groundwater levels in MW-1 at 9.90 feet below top of casing (toc) or 6.9 feet bgs, in MW-2 at 6.12 feet below toc, and in MW-3 at 4.10 feet below toc. Two weeks later, groundwater stabilized below toc in MW-1 at 9.86 feet (6.86 feet bgs), in MW-2 at 6.01 feet, and in MW-3 at 3.83 feet.

During well development on August 7, 2001, the field geologist measured recharge rates of 2 feet per minute. Reference: Trident Report 2001 "A Street Investigation".

5.3 Analytical Results

Laboratory Analytical Reports and Chain of Custody are presented in Appendix III.

Table 3a presents Sample Analytical Results for Metals in Soil.

Table 3b presents Sample Analytical Results for Organics in Soil.

Table 4a presents Sample Analytical Results for Metals in Groundwater.

Table 4b presents Sample Analytical Results for Organics in Groundwater.

Table 5 presents Non-Detect Limits.

Details are as follows:

5.3.1 Soil Findings

McCampbell Analytical (Pittsburg, California) analyzed the designated soil samples for constituents of concern.

Discussion

Organics – Hydrocarbons – Table 36

Hydrocarbons in the motor oil range were found in the shallow soil samples in SB-1-2, SB-3-2, SB-4-1, and SB-7-1 which were obtained from fill material. The chromatographs (presented in Appendix III) show that the hydrocarbon material in all the soil samples are similar. They all peak at about 19.5 minutes and have the same pattern. The amount of diesel is simply a function of the quantity of the material (motor oil), that extends into the diesel range.

The source of the hydrocarbon contaminated fill material is unknown, especially since three of the four positive samples were obtained from imported fill. Additionally, there were several businesses along E Street and 2nd Street, that would likely have used motor oil range compounds as grease.

The Lumberyard had a wagon shop and paint shop nearby at the current Senior Center property. The excavation of "A" Street extension in the early 2000s produced contaminated fill that may have been placed on the subject site. A wood planning mill was directly East of the property.

From a regulatory standards standpoint, all the motor oil concentrations are below the 5,400 mg/kg commercial use level, which is the maximum direct exposure human health risk for commercial use of the site. No oil results are above the Tier 1 ESL level of 1600 mg/kg standard for Residential or Park use.

Other Organics

Some semi-volatile compounds (SVOCs) were found in the analyses. In the soils, only Benzo (g,h,i) perylene was detected at a very low concentration 0.0093 mg/kg (less than 2x the RL) in SB-5-1. This is not an issue.

Metals

In the soil sample results for metals, arsenic was found in five (5) borings: SB-1-2, SB-1-5, SB-3-5, SB-5-5, and SB-7-1. The two shallow samples, at SB-1 and SB-7, were obtained from the fill. The other three were from the native soil at 5-feet bgs.

A review of detected metals concentrations in soil on a dry weight basis in Table 3a shows that some of the detected arsenic concentrations exceed their respective soil ESL values. Arsenic (As) was found in five (5) samples, at concentrations exceeding the ESL of 0.067 mg/kg. The residential shallow soil exposure level for Direct Exposure Human Health level is 0.067. However, most of the detected concentrations are consistent with San Francisco Bay Area background arsenic concentrations where 11 mg/kg has been identified by the SFRWQCB as an acceptable background concentration value for arsenic in the San Francisco Bay Area, except for SB-7.

The other metal of concern is copper (Cu). Three shallow samples; SB-3-2, SB-4-1 and SB-6-2, have copper at concentrations of 270 mg/kg, 250 mg/kg, and 540 mg/kg, respectively, which are slightly above the Tier I ESL of 230 mg/kg. Since two of the three samples were obtained from native soil, the probability that the copper was imported to the soil with fill is low. However, copper compounds, known biocides, are and were extensively used in treating and painting lumber.

The Direct Exposure Human Health level for copper is 3,100 mg/kg. Background copper concentrations in California ranges from 9 mg/kg – 99 mg/kg (Kearny Foundation). The US Air Force data (Hunter) give a range of 12 mg/kg to 52 mg/kg. Thus, these sample results are also above background range levels.

5.3.2 Groundwater Findings

McC Campbell Analytical (Pittsburg, California) analyzed the designated groundwater samples for constituents of concern listed in Table 1.

Discussion

Organics – Hydrocarbons

Oil was found in the groundwater in only one boring - SB-1. The results varied. HP-1 had TPH-mo at a concentration of 31,000 ug/l, which is 31 mg/l, a high concentration, especially given that the oil in soil sample SB-1-2 was 870 ug/l, and non-detect (nd) in the lower soil sample SB-1-5. If the oil was from the soil above, this would mean that 3.5% of the “non-soluble” oil dissolved into the groundwater. Another issue with this result was that the duplicate HP-1a was nd. A difference between a sample and a duplicate that differs by more than a few percent is problematic. Both the main sample and the duplicate were rerun. In the second run, the motor oil

concentration in sample HP-1 (repeat) fell to 760 ug/l, and the duplicate HP1a (repeat), was again nd.

The laboratory noted that the sediment in the original HP-1 sample bottle was very high, and apparently released adsorbed oil during the extraction process (using hexane as the standard extractant). The duplicate sample HP-1a had much less sediment, and no TPH-mo was detected. See Figure 4 for photos of the bottles.

Note that the chromatograph of the SB-1 ground water sample of 31,000 ug/l appeared to have the same characteristics as those of soil samples in which oil was found.

Thus, these results are varied and questionable. Basically, the oil results are a function of the groundwater sample sediment amount present in the respective bottle.

Other Organics

In the groundwater at HP-1, chloroform (CHCl₃) was found at 0.63 mg/kg, just above the RL. In HP-7, 2,4- dichlorophenol, di-n-butyl phthalate, and diethyl phthalate (both plasticizers) were found in very low concentrations (less than two times the RL).

Metals

The only metal of concern in the groundwater is vanadium (V). In both groundwater samples HP-1 and HP-7, the vanadium concentration was above the ESL of 19 ug/l (with HP-1a, the duplicate sample being 19 ug/l). The concentrations are still comparatively low at 26 and 36 ug/l.

No elevated concentrations of vanadium were found in the soil. The maximum concentration in the soil samples is 70 mg/kg, well below the ESL of 200 mg/kg.

The source of the vanadium is not known. Possible sources include vanadium naphthenate oxide, 35% in naphthenic acid, which is used as a wood preservative and in road stabilization. There is no documentation concerning any wood preservative chemicals was used onsite, although the facility operates for a very long time.

Another source, common in Antioch, is Sierra Crete, a recycled hazardous waste produced at the nearby DuPont plant, sold for roadbase. However according to the City published maps, Sierra Crete was not used in the roads in the area of the Lumberyard.

Currently there is insufficient evidence to come up with a plausible explanation as to the source and mechanism of transfer to groundwater.

6.0 SENSITIVE RECEPTORS

The sensitive receptors to the site area include the “wetlands” a few dozen feet directly north of the area. The wetlands are the growth on the banks of the San Joaquin River, the major receptor of concern. *Trident* personnel observed no adverse growth conditions in the areas downgradient of the tanks.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The soils contain a limited number of compounds in the fill, native soil, and groundwater, that all seem rather independent and with little to no clear explanation of their presence.

In general, the results indicate that some sample results exceeded ESLs, but the soil contamination is not severe.

If the land use is considered for recreational or residential use, human health-based screening levels apply. Tier 1 ESLs soil applicable are for terrestrial exposure if there is landscaping, onsite living, etc. Arsenic and copper exceeded these ESL limits in several places in the soil. Most arsenic results are near background levels and should not be an issue, except for SB-7.

Copper is elevated and above the Tier 1 ESL of 180 mg/kg a factor in park or residential development. The Direct Exposure Risk Level standard is 3,100 mg/kg for residential use and 47,000 mg/kg for commercial use.

Thus, for development, possible solutions for contaminated soil areas include isolating the contaminated soil under a parking lot or basketball court; and/or importing or excavating clean fill to cover the problem areas. Contaminated soil can also be removed and/or replaced. So a contaminated area could be slated for a parking area, then paved to act as a barrier and sealant to the soil.

Thus, Trident recommends that if there is to be a residential/commercial/park or similar development at the site, that of the surface fill should be further assessed for extent and degree of contamination.

Groundwater issues:

The vanadium findings in the groundwater are above the Tier 1 ESL of 19 ug/l. The initial HP-1 groundwater motor oil result of 31,000 ug/l has no corresponding Tier 1 groundwater ESL value.

Trident recommends that a copy of this report be provided to the Sacramento Regional Water Quality Control Board (RWQCB) for review and determination regarding opening a case for these detected contaminants.

8.0 REFERENCES

Trident Environmental and Engineering, Inc., "Phase I Environmental Site Assessment, Antioch Lumber Company Yard, Antioch, California" (dated October 22, 2019).

Trident Environmental and Engineering, Inc., "Site-Specific Sampling and Analysis Plan, Antioch Lumber Company Yard" (dated February 28, 2020).

Trident "A-Street Investigation" Report (dated 2001).

Kearney Foundation of Soil Science, "Background Concentrations of Trace and Major Elements in California Soils" (D. Silva (ed.)) Division of Agriculture and Natural Resources, University of California. (1996). <https://ucanr.edu/sites/poultry/files/297094.pdf>

Hunter, P. Inorganic Chemicals in Ground Water and Soil: Background Concentrations at California Air Bases. In: 44th Annual Meeting of the Society of Toxicology. New Orleans, Louisiana, 2005.

Kleinfelder, "Geotechnical Investigation Report, Delta Cove, Antioch, California", June 2, 1993.

LIMITATIONS

Trident's observations, findings, and opinions should not be considered as scientific certainties, but only as opinion based on our professional judgment concerning the significance of the data reviewed in developing this report. Specifically, Trident cannot represent that the Site does not contain or potentially contain any hazardous or toxic materials or other latent conditions beyond that observed by Trident during preparation of this report. Additionally, due to limitations of this investigation process and the necessary use of data furnished by others, Trident and its subcontractors cannot assume liability if actual conditions differ from the information presented in this report.

The proposed services will be conducted by Trident in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No representation expressed or implied, and no warranty or guarantee is included or intended in the Proposal or in any report, opinion rendered or document.

The City of Antioch should recognize that the reliability of recommendations to be produced by the proposed work will depend heavily on the accuracy and completeness of data relating to facility and site conditions. In order to meet schedule and budget considerations, it should be expected that certain data that may affect conclusions will be unavailable. As a result, there will always be a level of uncertainty for which the City of Antioch must be aware. It should be recognized that these uncertainties cannot be entirely eliminated, but that by mutual agreement, Trident can apply certain techniques to help reduce these uncertainties to a level deemed acceptable by the City of Antioch. In any event, the scope of services provided by Trident must be that which the City of Antioch agrees to, or selects, in light of personal risk preferences and other considerations.

Note as part of AAI disclosure requirements: The user of this report will be responsible for:

(1) determining the relationship of the purchase price to the value of the property; (2) disclosure of specialized knowledge, experience or information which may affect the environmental condition of the subject site; and (3) disclosure of any environmental cleanup liens against the property within recorded land title records, if applicable.

This report is for the sole use of the client and its agents. In compliance with State and Federal regulations, **Trident** prepared this report as a third-party independent consultant. Employees, state and local agencies and others supplied the data for preparation of this report. **Trident** worked under the assumption that all data and reference material supplied were true and accurate, and that all relevant environmental information was disclosed to **Trident** during this investigation. All conclusions drawn by **Trident** were interpretations of the data supplied, and subject to the data's accuracy. This report was prepared in compliance with current procedures and accepted practices

(Limitations Cont.)

of the industry. Although every level of effort has gone into reducing risks, potential environmental problems and a certain level of risk may still exist at any level of effort.

Physical changes to a property, from the condition at which it existed during the time our investigation was accomplished, can be brought about by natural or anthropogenic causes. Additionally, the standards of work, which are acceptable to local governing authorities, may be raised during the passage of time, and what is acceptable at this time may not be in the future.

Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface conditions present. More extensive studies including additional subsurface investigation can tend to reduce the inherent uncertainties associated with studies of this type.

Our services were conducted in a manner consistent with the level of care and skill ordinarily practiced by members of the profession under like circumstance. No other representation, express or implied, and no warranty or guarantee is included or intended in this report. The conclusions and recommendations submitted in this report are based upon sound engineering judgment using information obtained from our review of published data, site reconnaissance, and laboratory testing and analyses. These conclusions and recommendations may change as new, additional data are obtained.

FIGURES

FIGURE 1
 Site Location Map



FIGURE 2
Soil and Groundwater
Sample Boring Locations Map

Fig 2. Soil and Groundwater Sample Locations - Antioch Lumberyard



Legend

- Soil Borings
- Soil Borings with Hydropunch

0.0 0 80 160 ft
WGS_1984_Web_Mercator_Auxiliary_Sphere

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

Notes Base Map From
Contra Costa County -DOIT GIS

FIGURE 3

Summary of Boring Logs and Analysis

Figure 3. Antioch Lumber Yard
Summary of Boring Log Findings and Significant Soil and Groundwater Sample Analytical Results
Notes: Groundwater organics listed above the detection limit.
Detected metals in soil and groundwater listed only if above the ESLs
Sampling date: July 10, 2020

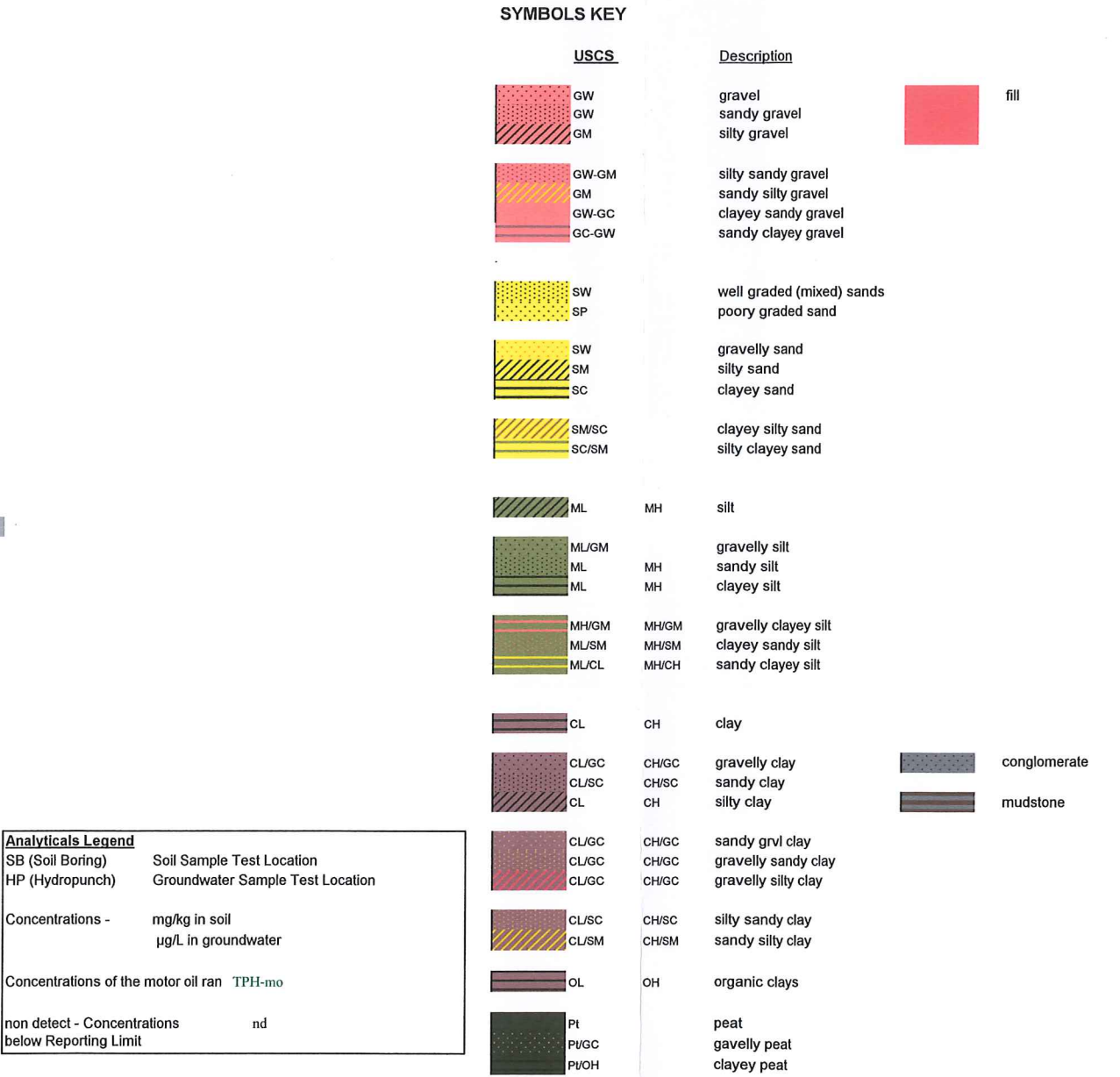
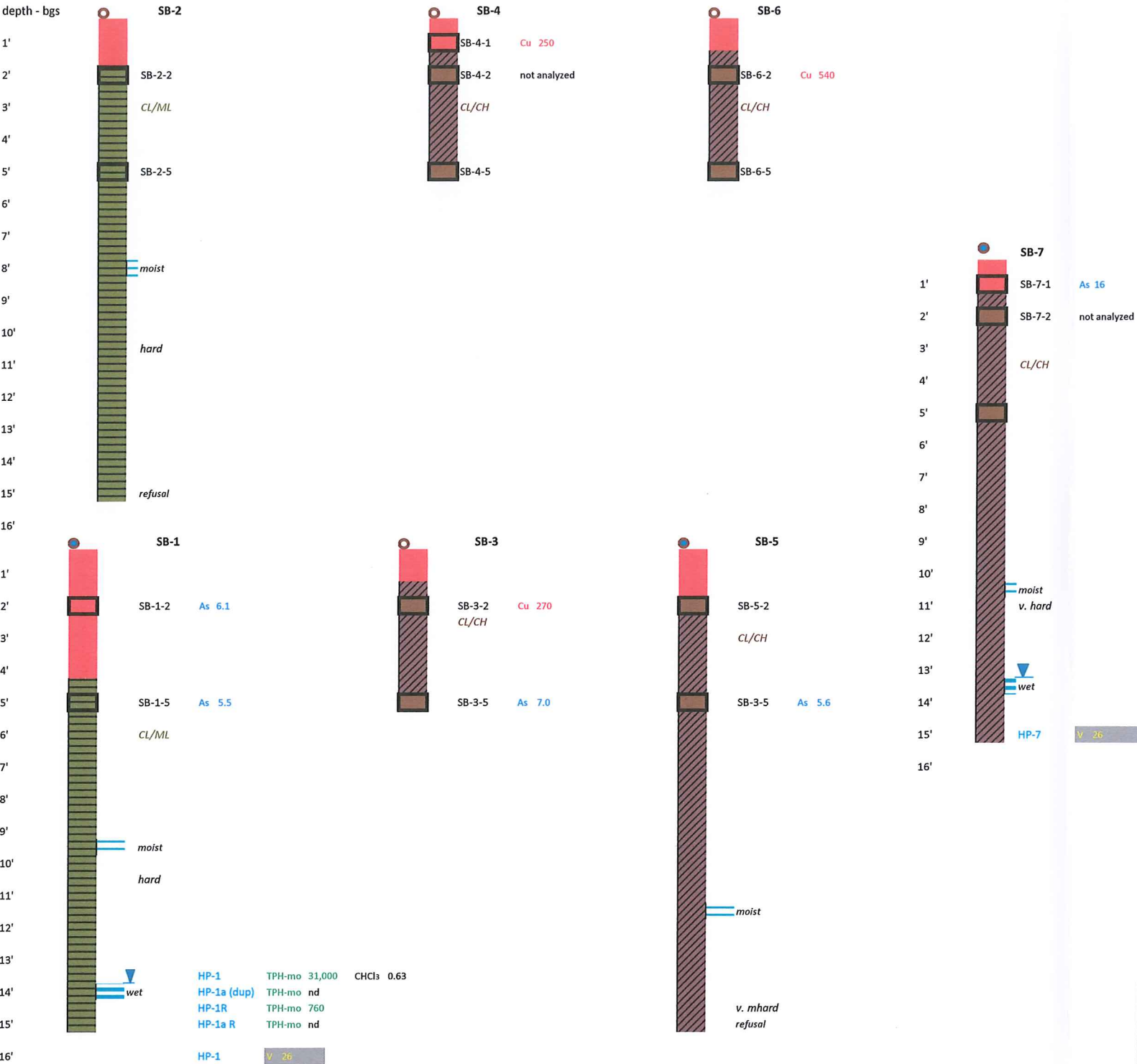
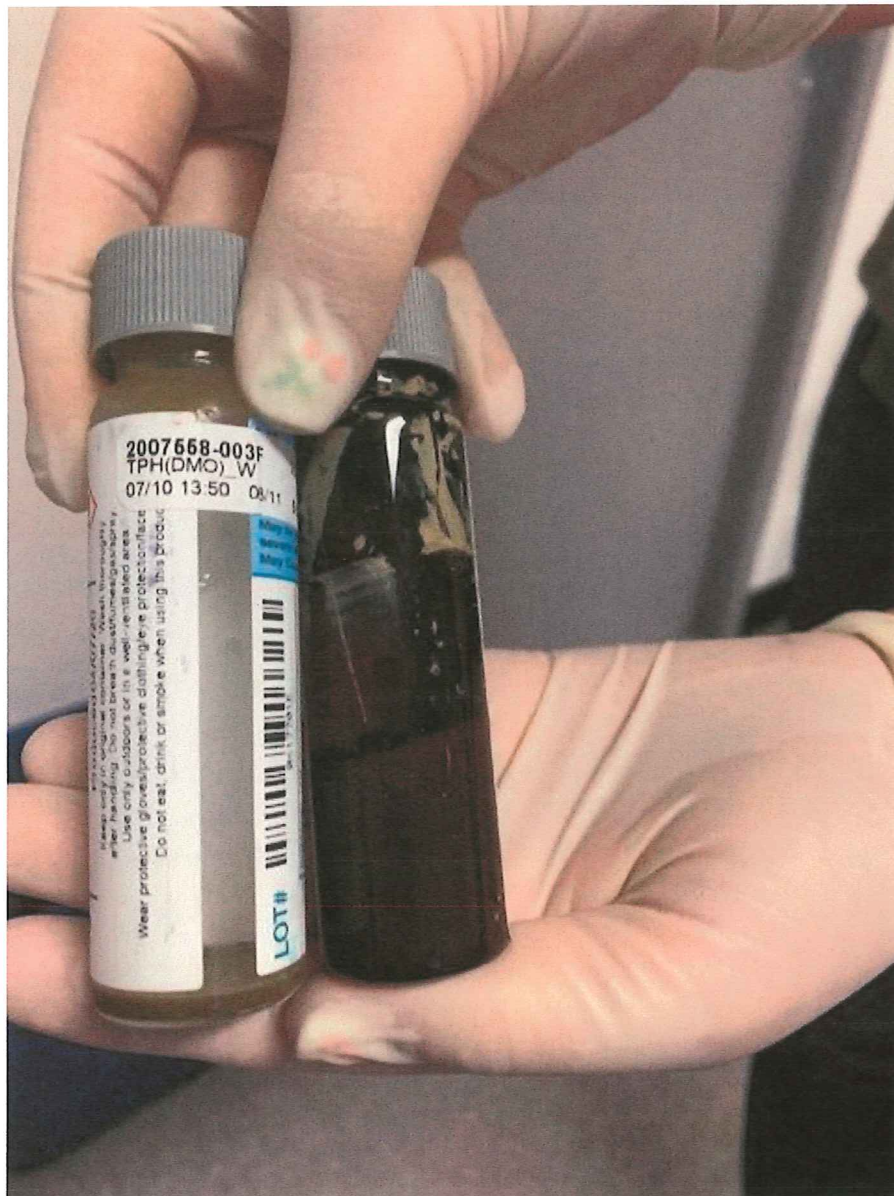


FIGURE 4
Photos of Groundwater Sample Bottles for HP1, HP1A
TPH Scan

*Site-Specific Sampling and Analysis Report
Ph II Environmental Site Assessment
City of Antioch
August 31, 2020*



Right sample bottle – HP-1 with high sediment and 31,000 ug/l motor oil range
Left sample bottle – Duplicate sample bottle HP1A with very little sediment and “nd” result

TABLES

Table 1. Analytical Methods

<u>Analyte</u>	<u>EPA Method</u>
CAM Metals (17)	6020C
Mercury (Hg)	7470B included in CAM 17
TPH (g, d, mo), BTEX, MTBE	8015B
Volatile organics (VOCs)	8260B
Semi-volatile organics (SOVCs)	8270E

Table 2. Sample and Analysis Matrix

Type/ depth Loc ft bgs	Cam 17 Metals	TPH scan	VOCs	SVOCs
<i>Loc 1</i>				
SB 1 - 2	X	X		
SB 1 - 5	X	X		
HP 1	X	X	X	X
<i>Loc 2</i>				
SB 2 - 2	X	X	X	X
SB 2 - 5	X	X	X	X
HP 2	na	na		
<i>Loc 3</i>				
SB 3 - 2	X	X		
SB 3 - 5	X	X		
<i>Loc 4</i>				
SB 4 - 2	X	X		
SB 4 - 5	X	X		
<i>Loc 5</i>				
SB 5 - 2	X	X	X	X
SB 5 - 5	X	X	X	X
HP 5	na	na		
<i>Loc 6</i>				
SB 6 - 2	X	X		
SB 6 - 5	X	X		
<i>Loc 7</i>				
SB 7 - 2	X	X	X	X
SB 7 - 5	X	X	X	X
HP 7	X	X	X	X

LEGEND:

SB 1 - Soil Sample at Boring 1

HP 5 – Hydropunch Water Sample at Boring 5

na – Sample not available due to rig refusal at a 15 ft. depth, dry borehole.

Antioch Lumber Yard

Table 3a. Sample Analytical Results for Metals in Soil

Sampling date: July 10, 2020

Soil Sample Analytical Results

CAM/CCR 17 Metals

Notes

Sample	Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	V	Zn	Fill
SB-1	2'	0.51	6.1	120	nd	35	9.8	70	15	0.11	0.5	34	0.9	53	59	
SB-1	5'	nd	5.5	99	nd	43	9.9	19	4.7	0.1	1.1	43	0.84	54	49	
SB-2	2'	nd	5.1	170	nd	45	10	18	5	nd	nd	47	1	61	51	
SB-2A	2'	nd	4.6	140	nd	42	9.9	18	4.7	nd	nd	43	0.81	59	51	
SB-2	5'	nd	4.3	83	nd	39	8.5	16	4	nd	nd	42	0.85	52	45	
SB-3	2'	nd	3.3	89	nd	43	22	270	5.6	0.29	0.59	38	1.4	70	45	
SB-3	5'	nd	7.0	160	nd	39	9.2	25	11	0.053	nd	40	1	57	55	
SB-4	1'	nd	3.9	260	nd	25	9.2	250	23	0.088	0.63	23	0.98	70	120	Fill
SB-4	5'	nd	4.3	110	nd	34	8.5	16	4.1	nd	nd	38	0.75	53	43	
SB-5	2'	nd	4.2	80	nd	35	8.8	17	4.2	0.12	nd	39	0.91	55	46	
SB-5	5'	nd	5.6	140	nd	37	8.6	32	36	nd	nd	38	0.92	53	56	
SB-6	2'	nd	4.5	74	1	29	7	540	3.7	0.098	nd	19	nd	49	75	
SB-6	5'	nd	4.2	110	0.85	35	9.2	56	4.4	nd	nd	42	nd	56	92	
SB-7	1'	1.2	16	130	nd	33	8.1	41	28	0.11	0.94	27	0.54	66	64	Fill
SB-7	5'	nd	3.9	99	nd	29	7.5	13	3.6	0.14	nd	33	nd	51	36	

Regulatory Standards - Metals in Soil

Tier 1 ESL	40	5.5	1500	7.4	58	80	230	750	10	40	150	10	200	600
------------	----	-----	------	-----	----	----	-----	-----	----	----	-----	----	-----	-----

Notes:

Soils results reported in mg/kg (ppm)

nd = not detected less than detection limit. Detection limit values given in Table 5.

SB-2A is a duplicate sample

Sb = Antimony; As = Arsenic; Ba = Barium; Be = Beryllium; Cd = Cadmium; Cr = Chromium; Co = Cobalt; Cu = Copper; Pb = Lead; Hg = Mercury; Mo = Molybdenum;

Ni = Nickel; Se = Selenium; Ag = Silver; Tl = Thallium; V = Vanadium; Zn = Zinc

ft bgs = feet below ground surface.

ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), Soil Tier 1 ESL from Summary of Soil ESLs.
TTLC = Total Threshold Limit Concentration.

**= July 2019 (Revision 2) Tier 1 Soil ESL for Lead is 32 mg/kg, but is based on Terrestrial Habitat Levels. The Direct Exposure Human Health Risk Levels Non-cancer Risk concentration for Lead in a residential land use scenario (Table S-1) is 80 mg/kg.

**= January 2019 Tier 1 Soil ESL for Vanadium is 18 mg/kg, but is based on Terrestrial Habitat Levels. The Direct Exposure Human Health Risk Levels Non-cancer Risk for Vanadium in a residential land use scenario (Table S-1) is 390 mg/kg.

Results in BOLD exceed Tier 1 ESL

Results and ESL values reported in milligrams per kilogram (mg/kg), unless otherwise indicated.

Antioch Lumber Yard

Table 3b. Sample Analytical Results for Organics in Soil

Soil Sample Analytical Results

Sampling date: July 10, 2020

Total Extractable Petroleum Hydrocarbons **SVOCs** **Notes**

Sample	Depth ft bgs	TPH-d	TPH-mo		
SB-1	2'	13	870	All nd	Fill
	5'	nd	nd	All nd	
SB-2	2'	nd	nd	All nd	
	5'	nd	nd	All nd	
SB-3	2'	2.4	36	All nd	
	5'	nd	nd	All nd	
SB-4	1'	5.2	29	All nd	Fill
	5'	nd	nd	All nd	
SB-5	2'	nd	nd	All nd except Benzo (g,h,i) perylene 0.0093	
	5'	nd	nd		
SB-6	2'	nd	nd	All nd	
	5'	nd	nd	All nd	
SB-7	1'	nd	18	All nd	Fill
	5'	nd	nd	All nd	
SB-2A	2'	nd	nd	All nd	

Regulatory Standards - Organics in Soil

Tier 1 ESL 260 1600

Notes:

Soils results reported in mg/kg (ppm)

nd = not detected at less than detection limit. Detection limits given in Table 5.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.

SVOCs = Semi-Volatile Organic Compounds.

ft bgs = feet below ground surface.

ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), Soil Tier 1 ESL from Summary of Soil ESLs.

= 2019 (Revision 2) Tier 1 Soil ESL for TPH-MO is 1,600 mg/kg, but is based on Terrestrial Habitat Levels. The Direct Exposure Human Health Risk Level for a Non-Cancer Risk in a Residential Land Use scenario is 12,000 mg/kg.

Results, LTCP values, and ESL values, reported in mg/kg (milligrams per kilogram), unless otherwise indicated.

Results in BOLD exceed Tier 1 ESL

Antioch Lumber Yard

Table 4a. Sample Analytical Results for Metals in Groundwater

Sampling date: July 10, 2020

Groundwater Sample Analytical Results

CAM/CCR 17 Metals

	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	V	Zn
HP1	nd	nd	82	nd	nd	nd	nd	nd	nd	73	5.9	nd	26	nd
HP1A (Duplicate)	nd	nd	73	nd	nd	nd	nd	nd	nd	60	5.4	nd	19	nd
HP7	nd	7.7	nd	nd	nd	nd	nd	nd	nd	87	nd	nd	36	nd
Regulatory Standards - Metals in Water														
Tier 1 ESL	6	10	1000	*5.0	50	23	3.1	2.5	0.025	100	**100	0.5	19	81

Notes:

Groundwater results reported in µg/l (ppb)

nd = not detected. **Detection limits given in Table 5.**

Sb = Antimony; As = Arsenic; Ba = Barium; Be = Beryllium; Cd = Cadmium; Cr = Chromium; Co = Cobalt; Cu = Copper; Pb = Lead; Hg = Mercury; Mo = Molybdenum;

Ni = Nickel; Se = Selenium; Ag = Silver; Tl = Thallium; V = Vanadium; Zn = Zinc

ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), Groundwater Tier 1 ESL from Summary of Groundwater ESLs.

*= July 2019 (Revision 2) Tier 1 Groundwater ESL for Cadmium is 0.25 ug/L, but is based on an Aquatic Habitat. The MCL Priority value for Cadmium is 5.0 ug/L.

**= July 2019 (Revision 2) Tier 1 Groundwater ESL for Nickel is 8.2 ug/L, but is based on an Aquatic Habitat. The MCL priority value for Nickel is 100 ug/L.

Results in BOLD exceed the respective ESL value.

Antioch Lumber Yard

Table 4b. Sample Analytical Results for Organics in Groundwater

Sampling date: July 10, 2020

Groundwater Sample Analytical Results		SVOCs			
Sample	Total Extractable Petroleum Hydrocarbons		VOCs		Diethyl Phthalate
	TPH-d	TPH-mo	Chloroform	2,4-Dichloro phenol	
HP1	nd	31,000	0.63	nd	nd
HP1a	nd	nd	nd	nd	nd
HP7	nd	nd	nd	0.11	0.076
HP1R	nd	760	nd	nd	nd
HP1aR	nd	nd	nd	nd	nd

Regulatory Standards

Tier 1 ESL	100	No Value	0.81	No Value	0.3	1.5
------------	-----	----------	------	----------	-----	-----

Notes:

Groundwater results reported in µg/l (ppb)

nd = not detected. **Non-detect values given in Table 5.**

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.

VOCs = Volatile Organic Compounds.

SVOCs = Semi-Volatile Organic Compounds.

ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2),

Groundwater Tier 1 ESL from Summary of Groundwater ESLs.

R indicates re-run sample

VOCs - All nd except as shown

SVOCs - All nd except as shown

Results in BOLD exceed Tier 1 ESL

APPENDICES

APPENDIX I

Drilling Permits / USA Tickets



CONTRA COSTA
ENVIRONMENTAL HEALTH DIVISION
2120 DIAMOND BLVD. SUITE 100, CONCORD, CA 94520-5704
(925) 608-5500 FAX (925) 608-5502 www.cchealth.org/eh/



Soil Boring Permit

Permit Number: 0027041

PE Number: 4301

Date Received: March 31, 2020

WP Number: WP0027041

Issued By: ROBERT GRIBBEN

Date Issued: 15-May-2020

Date Expires: 16-Nov-2020

Intended Use: SOIL BORING

of Borings or Well ID: 7 BORINGS

The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

Project Site Information

Site Address: 2ND & E ST, ANTIOCH

APN: 066 055 001

Subdivision #:

Lot/Parcel #:

Minor Subdivision #:

Driller/Consultant Information

Driller: CASCADE DRILLING L P

Phone #: 510-478-0858

Consultant: TRIDENT ENVIRONMENTAL & ENGINEERING, INC

Phone #: 925-706-6931

Contact Person: RALPH MCGAHEY

E-Mail or Fax#: rmcgahey@cascade-env.com

Contact Person: MIKE HECKATHORN

E-Mail or Fax#: mhecakthorn@tridenteng.com

Legal Owner Information

Property Owner: CITY OF ANTIOCH

Owner Address: 200 H ST

City/State/Zip: ANTIOCH, CA 94509

Phone #: 925-779-7050

Responsible Party: SAME AS OWNER

Address:

City/State/Zip:

Phone #: Not Specified

Prior to any drilling construction or destruction of a well, requests for inspection appointment must be received 48 hours in advance (excluding weekends, holidays, and Mandatory County Furlough Days) by faxing your written request to (925) 608-5502 or e-mail to ehlu@cchealth.org. Voice mail messages are not acceptable.

Well drillers must possess a valid C-57 license and must have on file a performance bond of \$5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

Soil Boring Permit Conditions:

1. Soil Boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.

2. _____

3. _____

Final Approval by: _____

Date: _____

EMLCFM 14274X USAN 07/06/20 12:42:02 X013402867-02X RNEW NORM POLY LREQ

Ticket: X013402867 Rev: 02X Created: 07/06/20 12:41 User: VLERMA Chan: CSR

Work Start: 05/20/20 09:00 Legal Start: 05/20/20 09:00 Expires: 08/03/20 23:59

Response required: N Priority: 2

Excavator Information

Company: TRIDENT ENVIRONMENTAL & ENGINEERING INC

Co Addr: 110 L ST SUITE 1

City : ANTIOCH

State: CA Zip: 94509

Created By: JESSE WILSON

Language: ENGLISH

Office Phone: 925-706-6931

SMS/Cell: 925-354-2973

Office Email: jwilson@tridenteng.com

Site Contact: CALLER

Site Phone:

Site SMS/Cell: 925-354-2973

Site Email:

Excavation Area

State: CA County: CONTRA COSTA Place: ANTIOCH

Zip: 94509

Location: Address/Street: W 3RD AVE

: X/ST1: E ST

:

: WORK AREA BOUNDED BY "E" ST ON W, W 3RD ST ON S, & W 2ND ST ON NE

Delineated Method: WHITE PAINT

Work Type: SOIL SAMPLES

Work For : SAME

Permit: UNKNOWN

Job/Work order:

1 Year: N Boring: N Street/Sidewalk: N Vacuum: N Explosives: N

Lat/Long

Center Generated (NAD83): 38.017608/-121.811947 38.017550/-121.808432

: 38.015655/-121.811979 38.015598/-121.808464

Excavator Provided:

Map link:

https://newtin.usan.org/newtinweb/map_tkt.nap?TRG=EFUUQVYMZVWNWkw-n

Comments:

RENEW TICKET WORK CONTINUING PER JESSE--06/09/2020 01:59:11 PM

RENEW TICKET WORK CONTINUING PER JESSE WILSON--07/06/2020 12:41:37 PM

Members:

COCCC2 COUNTY OF CONTRA COSTA 2	BILL WALKER	925-313-7054
	For emergencies	925-313-7052
COMPIT COMCAST PITTSBURG	CAL XOC ANYONE	888-824-8219
	CAL XOC ANYONE	888-824-8219
CPNPIP CPN PIPELINE CO.	Name not available	877-432-5555
	Gas Control	877-432-5555
CTYANT CITY OF ANTIOCH	CITY ADMINISTRATION	925-779-6950
	CITY ADMINISTRATION	925-779-6950

DOWKEM DOW CHEMICAL	Name not available	Not available
	For emergencies	925-432-5555
PACBEL PACIFIC BELL	Damage Prevention	510-645-2929
	Damage Prevention	510-645-2929
PGECOND PGE DISTR CONCORD	Donald Collins	925-586-1799
	EMERGENCY	800-743-5000
PRXAIR PRAXAIR INC., LINDE	CLAIRE FEATHERSTON	925-427-3955
	JAMES COLLINS	925-382-8507

©Copyright 2019 Underground Service Alert of Northern California and Nevada.
All rights reserved

****Covid-19 Coronavirus Utility Response Information****

Please be aware that due to emergency safety precautions around the covid-19 coronavirus some utility owners may experience interruptions in resource availability and therefore may choose to not respond, or may provide a delayed response, to tickets at this time. If a utility member intends to not respond to your request they will advise you of this information directly. Please make sure you make every effort to communicate with the utility owners and ensure you receive a positive response to your request before proceeding with your work. Utility members may respond to you by marking the site, sending an email, or contacting you by phone. You should also check the electronic positive response system for information from the utility member for your request. You can check the responses to your ticket using your ticket number here: <https://usanorth811.herokuapp.com/positive/responses/new>. Any further questions about utility member response need to be directed to the utility member(s) themselves at this time.

Legal Start Information:

You cannot begin digging until each facility owner has responded to your request and it has passed the legal start date and time on your request. If you wish to begin sooner than the legal date and time indicated on your ticket, you must contact each facility operator individually to request that they respond sooner. You must begin digging no later than 14 calendar days after your ticket was created. Phone numbers for the relevant facility operators are listed at the bottom of your ticket.

Missing a Response from a Utility Member?:

If the legal start date and time has passed and a facility operator has not marked an underground facility at the dig site, state law requires that you process a No Response notice to your ticket. This can be done online through the E-Ticket program at www.usanorth811.org or by calling 811.

Your Ticket Is Only Valid for 28 Calendar Days:

Your ticket will automatically expire 28 calendar days after the date of creation. If you need to continue digging beyond that date, state law requires that you renew your ticket before the expiration date. If the utility markings at your site are no longer clearly visible, you must request a re-mark. Re-mark requests must be submitted at least two working days, not counting the day of submission, before the expiration date of your ticket. You can renew or re-mark your ticket online through the E-Ticket program at usanorth811.org or by calling 811.

Maintaining Utility Markings and Requesting Re-Marks at your Worksite:

It is your responsibility to respect and protect the utility markings. If the markings become disturbed and are no longer clearly visible, state law

requires that you stop excavation and have the area in which the markings have been disturbed re-marked by the appropriate facility operators. Re-mark requests must be submitted at least two working days, not counting the day of submission, before the expiration date of your ticket. You can submit a re-mark request on your ticket online through the E-Ticket program at usanorth811.org or by calling 811.

What Are Private Lines and How Do I Request Locates for Them?:

Utility members are only responsible to locate facilities that they own and maintain. Any other facilities, commonly called private lines, that were installed by a home builder, contractor, or the homeowner themselves, can be located by a private locator. Common private lines are water lines from the water meter to a home, irrigation or sprinkler lines, gas line feeding a back yard barbeque or fire pit, or an electrical line that powers a detached shed. You can find more information about private locators by visiting usanorth811.org or by searching online for "private utility locators."

Non-member Facility Owners:

The vast majority, but not all, owners of underground facilities are members of the USA North 811 nonprofit association of utility owners. Non-member entities include California and Nevada departments of transportation, railroads, military, tribal, and a few other entities. Non-pressurized sewer and drain line owners are also exempt from participating in California. Please review the list of utility owners on your ticket and contact any other affected entities directly.

Tolerance Zone and Hand Digging Requirements:

When digging near underground facilities, state law requires that you use only hand tools to expose lines in conflict with your excavation. Hand tools must be used within 24 inches of the outside edge of all utility markings. You may use vacuum equipment only if indicated on your ticket and with the approval of the facility operator whose line will be exposed.

Damaged, Nicked, Scraped, or Dented an Underground Facility?:

If you discover or cause damage, nicks, scrapes, dents, or any other disturbance to a marked or unmarked underground facility, state law requires that you immediately report the damage to the facility owner. You can contact the facility operator directly using the phone number listed at the bottom of your ticket, or you may contact USA North 811 to process a Damage/Exposed ticket. This can be done online through the E-Ticket program at usanorth811.org or by calling 811. You must also contact 911 if you discover or cause damage to a natural gas line, high-voltage power cable, high-pressure or hazardous materials pipeline, or any other high-priority facility. Make sure to evacuate the area before calling 911.

Delineating or Pre-marking Your Work Site:

State law requires that you mark out the dimensions of your project by delineating or pre-marking with something white, such as spray paint, chalk, flags, or stakes to show the utility companies where you plan to dig before you submit your locate ticket. If you have yet to pre-mark your dig site, please do so as soon as possible. You may start digging after the two working day minimum notice or the starting date and time you provided, whichever is later, has passed and every utility operator that was notified on your ticket has responded by either marking their underground facilities at the dig site, letting you know their facilities are not in conflict with your project, or making other arrangements with you.

Additional Site Information:

When submitting your locate ticket, you should have provided all necessary information about the site including special circumstances such as site access instructions, locked gate information, dogs in the yard or on the property, or any other information that would help assist the locators before arriving to your site. If you forgot to add information like this, you can submit a ticket amendment and add this necessary information to your existing locate ticket. You can submit an amendment online through the E-Ticket program at usanorth811.org or by calling 811.

E-Tickets:

80% of the contractors and excavators submitting tickets today are doing so online through our E-Tickets platform. It not only is saving them time and money, but allows us to keep our 811 phone lines open for damages, emergencies, curious homeowners, and new contractors who need help with the system. With your E-Ticket account you can submit any ticket you have, submit Renew or Re-mark requests, and have access to a stellar team of Web Operations Specialists who are available to help walk you through any questions or issues you might have. For more information on E-Tickets visit usanorth811.org and click the orange "Get Started" button on the top right corner of the page.

For More Information:

For more information and safe digging tips please visit usanorth811.org/safety

APPENDIX II

Soil Boring Logs

BORING NO.: SB-1		PROJECT NO.: 0829		PROJECT NAME: Former Lumber Yard, Antioch, CA	
BORING LOCATION: Southwest Portion of Site				ELEVATION AND DATUM: None	
DRILLING AGENCY: Cascade Drilling		DRILLER: Artemio		DATE & TIME STARTED:	DATE & TIME FINISHED:
DRILLING EQUIPMENT: Geoprobe Direct Push Truck-Mounted Drilling Rig				7/10/20 0910 hrs	7/10/20 0955 hrs
COMPLETION DEPTH: 15 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:	CHECKED BY:
FIRST WATER DEPTH: 13.5 ft.		NO. OF SAMPLES: 2 soil, 1 groundwater		Lita Freeman	

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 4.0 ft. Light brown silt (FILL); low plasticity; dry; stiff; some medium- to coarse-grained gravel; approximately 2-inch thick lense of black gravel (slag?) at 2.0 ft. (10,0,100)	FILL		No well constructed	0.0	Hard-packed soil surface
5	4.0 to 15.0 ft. Yellow brown silty clay/clayey silt; low plasticity; dry; stiff to very stiff (0,0,100)	CL/ML		SB-1-2 at 1.5- 2.0 ft. SB-1-5 at 4.5- 5.0 ft. HP-1	0.0	Borehole continuously cored from 0.0 to 15.0 ft. using dual tube sampling system where smaller 5.0 ft. long 1.5-inch O.D. rods were placed inside 5.0-ft. long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-ft. long 1.75-inch O.D. transparent acetate tube.
10	-color change to Brown at 8.0 ft. -moist at 9.0 ft. -very hard drilling below 10.0 ft. -becomes very stiff				0.1	Water encountered during drilling at 13.5 ft at 0950 hours. Temporary 1.0-inch O.D. new PVC casing placed in borehole (blank casing from 0.0 to 10.0 ft; slotted casing at 10.0 to 15.0 ft).
15	-wet at 13.5 ft.				0.0	Water level measured at 13.59 ft. at 1024 hours and at 13.65 ft. at 1345 hours. Water sample collected using a peristaltic pump and new tubing at 1350 hours.
20						Borehole grouted on 7/10/20 at 1510 hours using neat cement with verbal approval by CCCEHD to backfill without grout inspector present.
25						Drilling Notes: 1. Field estimates of percent gravel, sand, and fines are shown in parentheses. 2. Density determinations are qualitative and are not based on quantitative evaluation.
30						

BORING NO.: SB-2		PROJECT NO.: 0829		PROJECT NAME: Former Lumber Yard, Antioch, CA	
BORING LOCATION: Northwest Portion of Site				ELEVATION AND DATUM: None	
DRILLING AGENCY: Cascade Drilling		DRILLER: Artemio		DATE & TIME STARTED:	DATE & TIME FINISHED:
DRILLING EQUIPMENT: Geoprobe Direct Push Truck-Mounted Drilling Rig				7/10/20 0840 hrs	7/10/20 0910 hrs
COMPLETION DEPTH: 15 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:	CHECKED BY:
FIRST WATER DEPTH: Not Encountered		NO. OF SAMPLES: 2 soil		Lita Freeman	

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 1.5 ft. Light brown silt (FILL); low plasticity; dry; stiff; some fine- to coarse-grained gravel (10,0,90)	FILL		No well constructed	0.0	Hard-packed soil surface
5	1.5 to 15.0 ft. Yellow brown silty clay/clayey silt; low plasticity; dry; stiff to very stiff (0,0,100)	CL/ML		SB-2-2 at 1.5- 2.0 ft. SB-2-5 at 4.5- 5.0 ft.	0.2	Borehole continuously cored from 0.0 to 15.0 ft. using dual tube sampling system where smaller 5.0 ft. long 1.5-inch O.D. rods were placed inside 5.0-ft. long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-ft. long 1.75-inch O.D. transparent acetate tube.
	-moist at 8.0 ft.					
10	-very hard drilling below 10.0 ft.				0.1	Free water not encountered during drilling.
						Temporary 1.0-inch O.D. new PVC casing placed in borehole (blank casing from 0.0 to 10.0 ft; slotted casing at 10.0 to 15.0 ft); no water in casing.
15	-refusal at 15.0 ft.				0.0	Borehole grouted on 7/10/20 at 1445 hours using neat cement with verbal approval by CCCEHD to backfill without grout inspector present.
20						Drilling Notes: 1. Field estimates of percent gravel, sand, and fines are shown in parentheses. 2. Density determinations are qualitative and are not based on quantitative evaluation.
25						
30						

BORING NO.: SB-3		PROJECT NO.: 0829		PROJECT NAME: Former Lumber Yard, Antioch, CA	
BORING LOCATION: South Central Portion of Site				ELEVATION AND DATUM: None	
DRILLING AGENCY: Cascade Drilling		DRILLER: Artemio		DATE & TIME STARTED:	DATE & TIME FINISHED:
DRILLING EQUIPMENT: Geoprobe Direct Push Truck-Mounted Drilling Rig				7/10/20 1154 hrs	7/10/20 1159 hrs
COMPLETION DEPTH: 5 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:	CHECKED BY:
FIRST WATER DEPTH: Not Encountered		NO. OF SAMPLES: 2 soil		Lita Freeman	

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 1.0 ft. Light brown silt (FILL); low plasticity; dry; stiff; some medium- to coarse-grained gravel (10,0,90)	FILL		No well constructed	0.1	<p>Hard-packed soil surface</p> <p>Borehole continuously cored from 0.0 to 5.0 ft. using dual tube sampling system where smaller 5.0 ft. long 1.5-inch O.D. rods were placed inside 5.0-ft. long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-ft. long 1.75-inch O.D. transparent acetate tube.</p> <p>Borehole grouted on 7/10/20 at 1325 hours using neat cement with verbal approval by CCCEHD to backfill without grout inspector present.</p> <p>Drilling Notes:</p> <p>1. Field estimates of percent gravel, sand, and fines are shown in parentheses.</p> <p>2. Density determinations are qualitative and are not based on quantitative evaluation.</p>
5	1.0 to 5.0 ft. Brown silty clay; low to medium plasticity; dry; medium stiff (0,0,100)	CL/CH		SB-3-2 at 1.5- 2.0 ft.	0.0	
				SB-3-5 at 4.5- 5.0 ft.		
10						
15						
20						
25						
30						

BORING NO.: SB-4		PROJECT NO.: 0829		PROJECT NAME: Former Lumber Yard, Antioch, CA		
BORING LOCATION: North Central Portion of Site				ELEVATION AND DATUM: None		
DRILLING AGENCY: Cascade Drilling		DRILLER: Artemio		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: Geoprobe Direct Push Truck-Mounted Drilling Rig				7/10/20 1150 hrs	7/10/20 1154 hrs	
COMPLETION DEPTH: 5 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:	CHECKED BY:	
FIRST WATER DEPTH: Not Encountered		NO. OF SAMPLES: 3 soil		Lita Freeman		
DEPTH (FT)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
0.0	0.0 to 1.0 ft. Light brown silt (FILL); low plasticity; dry; stiff; some fine- to coarse-grained gravel (10,0,90)	FILL		No well constructed	0.0	Hard-packed soil surface
0.0				SB-4-1 at 0.5-1.0 ft.	0.0	Borehole continuously cored from 0.0 to 5.0 ft. using dual tube sampling system where smaller 5.0 ft. long 1.5-inch O.D. rods were placed inside 5.0-ft. long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-ft. long 1.75-inch O.D. transparent acetate tube.
0.0	1.0 to 5.0 ft. Brown silty clay; low to medium plasticity; dry; medium stiff (0,0,100)	CL/CH		SB-4-2 at 1.5- 2.0 ft.	0.0	
0.0				SB-4-5 at 4.5- 5.0 ft.	0.0	
5						
10						Borehole grouted on 7/10/20 at 1330 hours using neat cement with verbal approval by CCCEHD to backfill without grout inspector present.
15						Drilling Notes: 1. Field estimates of percent gravel, sand, and fines are shown in parentheses. 2. Density determinations are qualitative and are not based on quantitative evaluation.
20						
25						
30						

BORING NO.: SB-5		PROJECT NO.: 0829		PROJECT NAME: Former Lumber Yard, Antioch, CA	
BORING LOCATION: Southeast Portion of Site				ELEVATION AND DATUM: None	
DRILLING AGENCY: Cascade Drilling		DRILLER: Artemio		DATE & TIME STARTED:	DATE & TIME FINISHED:
DRILLING EQUIPMENT: Geoprobe Direct Push Truck-Mounted Drilling Rig				7/10/20 1004 hrs	7/10/20 1040 hrs
COMPLETION DEPTH: 15 Feet	BEDROCK DEPTH: Not Encountered		LOGGED BY:		CHECKED BY:
FIRST WATER DEPTH: Not Encountered	NO. OF SAMPLES: 2 soil		Lita Freeman		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 1.5 ft. Light brown silt (FILL); low plasticity; dry; stiff; some fine- to coarse-grained gravel (10,0,90)	FILL		No well constructed	0.0	Hard-packed soil surface
5	1.5 to 15.0 ft. Brown silty clay; low to medium plasticity; dry; medium stiff (0,0,100)	CL/CH		SB-5-2 at 1.5- 2.0 ft. SB-5-5 at 4.5- 5.0 ft.	0.0	Borehole continuously cored from 0.0 to 15.0 ft. using dual tube sampling system where smaller 5.0 ft. long 1.5-inch O.D. rods were placed inside 5.0-ft. long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-ft. long 1.75-inch O.D. transparent acetate tube.
10	-moist at 11.0 ft.				0.0	Free water not encountered during drilling.
15	-very hard drilling at 14.0 ft. -refusal at 15.0 ft.				0.0	Temporary 1.0-inch O.D. new PVC casing placed in borehole (blank casing from 0.0 to 10.0 ft; slotted casing at 10.0 to 15.0 ft); no water in casing.
20						Borehole grouted on 7/10/20 at 1450 hours using neat cement with verbal approval by CCCEHD to backfill without grout inspector present.
25						Drilling Notes: 1. Field estimates of percent gravel, sand, and fines are shown in parentheses. 2. Density determinations are qualitative and are not based on quantitative evaluation.
30						

BORING NO.: SB-6		PROJECT NO.: 0829		PROJECT NAME: Former Lumber Yard, Antioch, CA		
BORING LOCATION: Northeast Portion of Site				ELEVATION AND DATUM: None		
DRILLING AGENCY: Cascade Drilling		DRILLER: Artemio		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: Geoprobe Direct Push Truck-Mounted Drilling Rig				7/10/20 1141 hrs	7/10/20 1145 hrs	
COMPLETION DEPTH: 5 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:	CHECKED BY:	
FIRST WATER DEPTH: Not Encountered		NO. OF SAMPLES: 2 soil		Lita Freeman		
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 1.0 ft. Brown silt (FILL); low plasticity; dry; stiff; some fine- to coarse-grained gravel (10,0,90)	FILL		No well constructed	0.0	Hard-packed soil surface Borehole continuously cored from 0.0 to 5.0 ft. using dual tube sampling system where smaller 5.0 ft. long 1.5-inch O.D. rods were placed inside 5.0-ft. long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-ft. long 1.75-inch O.D. transparent acetate tube.
5	1.0 to 5.0 ft. Brown silty clay; low to medium plasticity; dry; medium stiff (0,0,100)	CL/CH		SB-6-2 at 1.5- 2.0 ft. SB-6-5 at 4.5- 5.0 ft.	0.1	
10						Borehole grouted on 7/10/20 at 1335 hours using neat cement with verbal approval by CCCEHD to backfill without grout inspector present.
15						Drilling Notes: 1. Field estimates of percent gravel, sand, and fines are shown in parentheses. 2. Density determinations are qualitative and are not based on quantitative evaluation.
20						
25						
30						

BORING NO.: SB-7		PROJECT NO.: 0829		PROJECT NAME: Former Lumber Yard, Antioch, CA	
BORING LOCATION: East Portion of Site				ELEVATION AND DATUM: None	
DRILLING AGENCY: Cascade Drilling		DRILLER: Artemio		DATE & TIME STARTED: 7/10/20 1041 hrs	DATE & TIME FINISHED: 7/10/20 1140 hrs
DRILLING EQUIPMENT: Geoprobe Direct Push Truck-Mounted Drilling Rig					
COMPLETION DEPTH: 15 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY: Lita Freeman	CHECKED BY:
FIRST WATER DEPTH: 13.0 ft.		NO. OF SAMPLES: 3 soil, 1 groundwater			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
0.0 to 1.0 ft.	Light brown silt with gravel (FILL); low plasticity; dry; stiff; medium- to coarse-grained gravel; some brick fragments (30,0,100)	FILL		No well constructed	0.1	Hard-packed soil surface
1.0 to 15.0 ft.	Brown silty clay; low to medium plasticity; dry; medium stiff (0,0,100)	CL/CH		SB-7-1 at 0.5-1.0 ft. SB-7-2 at 1.5- 2.0 ft. SB-7-5 at 4.5- 5.0 ft. HP-7	0.0	Borehole continuously cored from 0.0 to 15.0 ft. using dual tube sampling system where smaller 5.0 ft. long 1.5-inch O.D. rods were placed inside 5.0-ft. long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-ft. long 1.75-inch O.D. transparent acetate tube.
10.0 ft.	-moist at 10.0 ft. -very hard drilling below 10.0 ft. -becomes very stiff -wet at 13.0 ft.				0.2	Water encountered during drilling at 13.0 ft at 1135 hours.
15.0 ft.					0.0	Temporary 1.0-inch O.D. new PVC casing placed in borehole (blank casing from 0.0 to 10.0 ft; slotted casing at 10.0 to 15.0 ft).
15.0 ft.					0.0	Water level measured at 5.81 ft. at 1420 hours.
20.0 ft.						Water sample collected using a peristaltic pump and new tubing at 1430 hours.
25.0 ft.						Borehole grouted on 7/10/20 at 1455 hours using neat cement with verbal approval by CCCEHD to backfill without grout inspector present.
30.0 ft.						Drilling Notes: 1. Field estimates of percent gravel, sand, and fines are shown in parentheses. 2. Density determinations are qualitative and are not based on quantitative evaluation.

APPENDIX III
Laboratory Analytical Results, ESLs
and
Chain of Custody

HP-1 Groundwater Sample Rerun Results

Chromatographs for Soil
and
Groundwater Samples



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2007558

Report Created for: Trident Env. & Eng., Inc.

110 L Street, Suite 1
Antioch, CA 94509

Project Contact: Jesse Wilson

Project P.O.:

Project: 19-042-01; Antioch Lumber

Project Received: 07/10/2020

Analytical Report reviewed & approved for release on 07/20/2020 by:

Jennifer Lagerbom

Project Manager

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



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mcccampbell.com

CA ELAP 1644 ♦ NELAP 4033 ORELAP



Glossary of Terms & Qualifier Definitions

Client: Trident Env. & Eng., Inc.
Project: 19-042-01; Antioch Lumber
WorkOrder: 2007558

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: Trident Env. & Eng., Inc.
Project: 19-042-01; Antioch Lumber
WorkOrder: 2007558

Analytical Qualifiers

B	Analyte detected in the associated Method Blank and in the sample
F	Sample was filtered upon arrival to the lab
J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
S	Spike recovery outside accepted recovery limits
a1	Sample diluted due to matrix interference
a3	Sample diluted due to high organic content.
a4	Reporting limits raised due to the sample's matrix prohibiting a full volume extraction.
c1	Surrogate recovery outside of the control limits due to the dilution of the sample.
c2	Surrogate recovery outside of the control limits due to matrix interference.
e2	Diesel range compounds are significant; no recognizable pattern
e7	Oil range compounds are significant
e8	Pattern resembles kerosene/kerosene range/jet fuel range
j1	See attached narrative

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.
----	---



Case Narrative

Client: Trident Env. & Eng., Inc.
Project: 19-042-01; Antioch Lumber

Work Order: 2007558
July 21, 2020

j1:

Total Extractable Petroleum Hydrocarbons- Diesel, Motor Oil

Samples 2007558-001A were analyzed on an instrument sequence with a passing closing CCV that was analyzed outside of the method specified 12 hour time window due to tower error that stopped the sequence prior to its completion. The results are considered estimates.



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	2007558-004B	Soil	07/10/2020 09:05	GC38 07162033.D	201653
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	07/17/2020 03:46	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	07/17/2020 03:46	
Benzene	ND	0.0050	1	07/17/2020 03:46	
Bromobenzene	ND	0.0050	1	07/17/2020 03:46	
Bromochloromethane	ND	0.0050	1	07/17/2020 03:46	
Bromodichloromethane	ND	0.0050	1	07/17/2020 03:46	
Bromoform	ND	0.0050	1	07/17/2020 03:46	
Bromomethane	ND	0.0050	1	07/17/2020 03:46	
2-Butanone (MEK)	ND	0.050	1	07/17/2020 03:46	
t-Butyl alcohol (TBA)	ND	0.050	1	07/17/2020 03:46	
n-Butyl benzene	ND	0.0050	1	07/17/2020 03:46	
sec-Butyl benzene	ND	0.0050	1	07/17/2020 03:46	
tert-Butyl benzene	ND	0.0050	1	07/17/2020 03:46	
Carbon Disulfide	ND	0.0050	1	07/17/2020 03:46	
Carbon Tetrachloride	ND	0.0050	1	07/17/2020 03:46	
Chlorobenzene	ND	0.0050	1	07/17/2020 03:46	
Chloroethane	ND	0.0050	1	07/17/2020 03:46	
Chloroform	ND	0.0050	1	07/17/2020 03:46	
Chloromethane	ND	0.0050	1	07/17/2020 03:46	
2-Chlorotoluene	ND	0.0050	1	07/17/2020 03:46	
4-Chlorotoluene	ND	0.0050	1	07/17/2020 03:46	
Dibromochloromethane	ND	0.0050	1	07/17/2020 03:46	
1,2-Dibromo-3-chloropropane	ND	0.0050	1	07/17/2020 03:46	
1,2-Dibromoethane (EDB)	ND	0.0040	1	07/17/2020 03:46	
Dibromomethane	ND	0.0050	1	07/17/2020 03:46	
1,2-Dichlorobenzene	ND	0.0050	1	07/17/2020 03:46	
1,3-Dichlorobenzene	ND	0.0050	1	07/17/2020 03:46	
1,4-Dichlorobenzene	ND	0.0050	1	07/17/2020 03:46	
Dichlorodifluoromethane	ND	0.0050	1	07/17/2020 03:46	
1,1-Dichloroethane	ND	0.0050	1	07/17/2020 03:46	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	07/17/2020 03:46	
1,1-Dichloroethene	ND	0.0050	1	07/17/2020 03:46	
cis-1,2-Dichloroethene	ND	0.0050	1	07/17/2020 03:46	
trans-1,2-Dichloroethene	ND	0.0050	1	07/17/2020 03:46	
1,2-Dichloropropane	ND	0.0050	1	07/17/2020 03:46	
1,3-Dichloropropane	ND	0.0050	1	07/17/2020 03:46	
2,2-Dichloropropane	ND	0.0050	1	07/17/2020 03:46	

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	2007558-004B	Soil	07/10/2020 09:05	GC38 07162033.D	201653
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	07/17/2020 03:46	
cis-1,3-Dichloropropene	ND	0.0050	1	07/17/2020 03:46	
trans-1,3-Dichloropropene	ND	0.0050	1	07/17/2020 03:46	
Diisopropyl ether (DIPE)	ND	0.0050	1	07/17/2020 03:46	
Ethylbenzene	ND	0.0050	1	07/17/2020 03:46	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	07/17/2020 03:46	
Freon 113	ND	0.0050	1	07/17/2020 03:46	
Hexachlorobutadiene	ND	0.0050	1	07/17/2020 03:46	
Hexachloroethane	ND	0.0050	1	07/17/2020 03:46	
2-Hexanone	ND	0.0050	1	07/17/2020 03:46	
Isopropylbenzene	ND	0.0050	1	07/17/2020 03:46	
4-Isopropyl toluene	ND	0.0050	1	07/17/2020 03:46	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	07/17/2020 03:46	
Methylene chloride	ND	0.020	1	07/17/2020 03:46	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	07/17/2020 03:46	
Naphthalene	ND	0.0050	1	07/17/2020 03:46	
n-Propyl benzene	ND	0.0050	1	07/17/2020 03:46	
Styrene	ND	0.0050	1	07/17/2020 03:46	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	07/17/2020 03:46	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	07/17/2020 03:46	
Tetrachloroethene	ND	0.0050	1	07/17/2020 03:46	
Toluene	ND	0.0050	1	07/17/2020 03:46	
1,2,3-Trichlorobenzene	ND	0.0050	1	07/17/2020 03:46	
1,2,4-Trichlorobenzene	ND	0.0050	1	07/17/2020 03:46	
1,1,1-Trichloroethane	ND	0.0050	1	07/17/2020 03:46	
1,1,2-Trichloroethane	ND	0.0050	1	07/17/2020 03:46	
Trichloroethene	ND	0.0050	1	07/17/2020 03:46	
Trichlorofluoromethane	ND	0.0050	1	07/17/2020 03:46	
1,2,3-Trichloropropane	ND	0.0050	1	07/17/2020 03:46	
1,2,4-Trimethylbenzene	ND	0.0050	1	07/17/2020 03:46	
1,3,5-Trimethylbenzene	ND	0.0050	1	07/17/2020 03:46	
Vinyl Chloride	ND	0.0050	1	07/17/2020 03:46	
m,p-Xylene	ND	0.0050	1	07/17/2020 03:46	
o-Xylene	ND	0.0050	1	07/17/2020 03:46	
Xylenes, Total	ND	0.0050	1	07/17/2020 03:46	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	2007558-004B	Soil	07/10/2020 09:05	GC38 07162033.D	201653

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	99	66-116		07/17/2020 03:46
Toluene-d8	108	86-110		07/17/2020 03:46
4-BFB	101	71-114		07/17/2020 03:46
Benzene-d6	96	62-122		07/17/2020 03:46
Ethylbenzene-d10	96	69-130		07/17/2020 03:46
1,2-DCB-d4	81	55-108		07/17/2020 03:46

Analyst(s): AK

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-5	2007558-005B	Soil	07/10/2020 09:05	GC38 07162034.D	201653
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	07/17/2020 04:24	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	07/17/2020 04:24	
Benzene	ND	0.0050	1	07/17/2020 04:24	
Bromobenzene	ND	0.0050	1	07/17/2020 04:24	
Bromochloromethane	ND	0.0050	1	07/17/2020 04:24	
Bromodichloromethane	ND	0.0050	1	07/17/2020 04:24	
Bromoform	ND	0.0050	1	07/17/2020 04:24	
Bromomethane	ND	0.0050	1	07/17/2020 04:24	
2-Butanone (MEK)	ND	0.050	1	07/17/2020 04:24	
t-Butyl alcohol (TBA)	ND	0.050	1	07/17/2020 04:24	
n-Butyl benzene	ND	0.0050	1	07/17/2020 04:24	
sec-Butyl benzene	ND	0.0050	1	07/17/2020 04:24	
tert-Butyl benzene	ND	0.0050	1	07/17/2020 04:24	
Carbon Disulfide	ND	0.0050	1	07/17/2020 04:24	
Carbon Tetrachloride	ND	0.0050	1	07/17/2020 04:24	
Chlorobenzene	ND	0.0050	1	07/17/2020 04:24	
Chloroethane	ND	0.0050	1	07/17/2020 04:24	
Chloroform	ND	0.0050	1	07/17/2020 04:24	
Chloromethane	ND	0.0050	1	07/17/2020 04:24	
2-Chlorotoluene	ND	0.0050	1	07/17/2020 04:24	
4-Chlorotoluene	ND	0.0050	1	07/17/2020 04:24	
Dibromochloromethane	ND	0.0050	1	07/17/2020 04:24	
1,2-Dibromo-3-chloropropane	ND	0.0050	1	07/17/2020 04:24	
1,2-Dibromoethane (EDB)	ND	0.0040	1	07/17/2020 04:24	
Dibromomethane	ND	0.0050	1	07/17/2020 04:24	
1,2-Dichlorobenzene	ND	0.0050	1	07/17/2020 04:24	
1,3-Dichlorobenzene	ND	0.0050	1	07/17/2020 04:24	
1,4-Dichlorobenzene	ND	0.0050	1	07/17/2020 04:24	
Dichlorodifluoromethane	ND	0.0050	1	07/17/2020 04:24	
1,1-Dichloroethane	ND	0.0050	1	07/17/2020 04:24	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	07/17/2020 04:24	
1,1-Dichloroethene	ND	0.0050	1	07/17/2020 04:24	
cis-1,2-Dichloroethene	ND	0.0050	1	07/17/2020 04:24	
trans-1,2-Dichloroethene	ND	0.0050	1	07/17/2020 04:24	
1,2-Dichloropropane	ND	0.0050	1	07/17/2020 04:24	
1,3-Dichloropropane	ND	0.0050	1	07/17/2020 04:24	
2,2-Dichloropropane	ND	0.0050	1	07/17/2020 04:24	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-5	2007558-005B	Soil	07/10/2020 09:05	GC38 07162034.D	201653
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	07/17/2020 04:24	
cis-1,3-Dichloropropene	ND	0.0050	1	07/17/2020 04:24	
trans-1,3-Dichloropropene	ND	0.0050	1	07/17/2020 04:24	
Diisopropyl ether (DIPE)	ND	0.0050	1	07/17/2020 04:24	
Ethylbenzene	ND	0.0050	1	07/17/2020 04:24	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	07/17/2020 04:24	
Freon 113	ND	0.0050	1	07/17/2020 04:24	
Hexachlorobutadiene	ND	0.0050	1	07/17/2020 04:24	
Hexachloroethane	ND	0.0050	1	07/17/2020 04:24	
2-Hexanone	ND	0.0050	1	07/17/2020 04:24	
Isopropylbenzene	ND	0.0050	1	07/17/2020 04:24	
4-Isopropyl toluene	ND	0.0050	1	07/17/2020 04:24	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	07/17/2020 04:24	
Methylene chloride	ND	0.020	1	07/17/2020 04:24	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	07/17/2020 04:24	
Naphthalene	ND	0.0050	1	07/17/2020 04:24	
n-Propyl benzene	ND	0.0050	1	07/17/2020 04:24	
Styrene	ND	0.0050	1	07/17/2020 04:24	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	07/17/2020 04:24	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	07/17/2020 04:24	
Tetrachloroethene	ND	0.0050	1	07/17/2020 04:24	
Toluene	ND	0.0050	1	07/17/2020 04:24	
1,2,3-Trichlorobenzene	ND	0.0050	1	07/17/2020 04:24	
1,2,4-Trichlorobenzene	ND	0.0050	1	07/17/2020 04:24	
1,1,1-Trichloroethane	ND	0.0050	1	07/17/2020 04:24	
1,1,2-Trichloroethane	ND	0.0050	1	07/17/2020 04:24	
Trichloroethene	ND	0.0050	1	07/17/2020 04:24	
Trichlorofluoromethane	ND	0.0050	1	07/17/2020 04:24	
1,2,3-Trichloropropane	ND	0.0050	1	07/17/2020 04:24	
1,2,4-Trimethylbenzene	ND	0.0050	1	07/17/2020 04:24	
1,3,5-Trimethylbenzene	ND	0.0050	1	07/17/2020 04:24	
Vinyl Chloride	ND	0.0050	1	07/17/2020 04:24	
m,p-Xylene	ND	0.0050	1	07/17/2020 04:24	
o-Xylene	ND	0.0050	1	07/17/2020 04:24	
Xylenes, Total	ND	0.0050	1	07/17/2020 04:24	

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-5	2007558-005B	Soil	07/10/2020 09:05	GC38 07162034.D	201653
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	99		66-116		07/17/2020 04:24
Toluene-d8	109		86-110		07/17/2020 04:24
4-BFB	101		71-114		07/17/2020 04:24
Benzene-d6	92		62-122		07/17/2020 04:24
Ethylbenzene-d10	91		69-130		07/17/2020 04:24
1,2-DCB-d4	78		55-108		07/17/2020 04:24
<u>Analyst(s):</u> AK					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-2	2007558-011A	Soil	07/10/2020 10:25	GC38 07162035.D	201653
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	07/17/2020 05:02	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	07/17/2020 05:02	
Benzene	ND	0.0050	1	07/17/2020 05:02	
Bromobenzene	ND	0.0050	1	07/17/2020 05:02	
Bromochloromethane	ND	0.0050	1	07/17/2020 05:02	
Bromodichloromethane	ND	0.0050	1	07/17/2020 05:02	
Bromoform	ND	0.0050	1	07/17/2020 05:02	
Bromomethane	ND	0.0050	1	07/17/2020 05:02	
2-Butanone (MEK)	ND	0.050	1	07/17/2020 05:02	
t-Butyl alcohol (TBA)	ND	0.050	1	07/17/2020 05:02	
n-Butyl benzene	ND	0.0050	1	07/17/2020 05:02	
sec-Butyl benzene	ND	0.0050	1	07/17/2020 05:02	
tert-Butyl benzene	ND	0.0050	1	07/17/2020 05:02	
Carbon Disulfide	ND	0.0050	1	07/17/2020 05:02	
Carbon Tetrachloride	ND	0.0050	1	07/17/2020 05:02	
Chlorobenzene	ND	0.0050	1	07/17/2020 05:02	
Chloroethane	ND	0.0050	1	07/17/2020 05:02	
Chloroform	ND	0.0050	1	07/17/2020 05:02	
Chloromethane	ND	0.0050	1	07/17/2020 05:02	
2-Chlorotoluene	ND	0.0050	1	07/17/2020 05:02	
4-Chlorotoluene	ND	0.0050	1	07/17/2020 05:02	
Dibromochloromethane	ND	0.0050	1	07/17/2020 05:02	
1,2-Dibromo-3-chloropropane	ND	0.0050	1	07/17/2020 05:02	
1,2-Dibromoethane (EDB)	ND	0.0040	1	07/17/2020 05:02	
Dibromomethane	ND	0.0050	1	07/17/2020 05:02	
1,2-Dichlorobenzene	ND	0.0050	1	07/17/2020 05:02	
1,3-Dichlorobenzene	ND	0.0050	1	07/17/2020 05:02	
1,4-Dichlorobenzene	ND	0.0050	1	07/17/2020 05:02	
Dichlorodifluoromethane	ND	0.0050	1	07/17/2020 05:02	
1,1-Dichloroethane	ND	0.0050	1	07/17/2020 05:02	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	07/17/2020 05:02	
1,1-Dichloroethene	ND	0.0050	1	07/17/2020 05:02	
cis-1,2-Dichloroethene	ND	0.0050	1	07/17/2020 05:02	
trans-1,2-Dichloroethene	ND	0.0050	1	07/17/2020 05:02	
1,2-Dichloropropane	ND	0.0050	1	07/17/2020 05:02	
1,3-Dichloropropane	ND	0.0050	1	07/17/2020 05:02	
2,2-Dichloropropane	ND	0.0050	1	07/17/2020 05:02	

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-2	2007558-011A	Soil	07/10/2020 10:25	GC38 07162035.D	201653
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	07/17/2020 05:02	
cis-1,3-Dichloropropene	ND	0.0050	1	07/17/2020 05:02	
trans-1,3-Dichloropropene	ND	0.0050	1	07/17/2020 05:02	
Diisopropyl ether (DIPE)	ND	0.0050	1	07/17/2020 05:02	
Ethylbenzene	ND	0.0050	1	07/17/2020 05:02	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	07/17/2020 05:02	
Freon 113	ND	0.0050	1	07/17/2020 05:02	
Hexachlorobutadiene	ND	0.0050	1	07/17/2020 05:02	
Hexachloroethane	ND	0.0050	1	07/17/2020 05:02	
2-Hexanone	ND	0.0050	1	07/17/2020 05:02	
Isopropylbenzene	ND	0.0050	1	07/17/2020 05:02	
4-Isopropyl toluene	ND	0.0050	1	07/17/2020 05:02	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	07/17/2020 05:02	
Methylene chloride	ND	0.020	1	07/17/2020 05:02	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	07/17/2020 05:02	
Naphthalene	ND	0.0050	1	07/17/2020 05:02	
n-Propyl benzene	ND	0.0050	1	07/17/2020 05:02	
Styrene	ND	0.0050	1	07/17/2020 05:02	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	07/17/2020 05:02	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	07/17/2020 05:02	
Tetrachloroethene	ND	0.0050	1	07/17/2020 05:02	
Toluene	ND	0.0050	1	07/17/2020 05:02	
1,2,3-Trichlorobenzene	ND	0.0050	1	07/17/2020 05:02	
1,2,4-Trichlorobenzene	ND	0.0050	1	07/17/2020 05:02	
1,1,1-Trichloroethane	ND	0.0050	1	07/17/2020 05:02	
1,1,2-Trichloroethane	ND	0.0050	1	07/17/2020 05:02	
Trichloroethene	ND	0.0050	1	07/17/2020 05:02	
Trichlorofluoromethane	ND	0.0050	1	07/17/2020 05:02	
1,2,3-Trichloropropane	ND	0.0050	1	07/17/2020 05:02	
1,2,4-Trimethylbenzene	ND	0.0050	1	07/17/2020 05:02	
1,3,5-Trimethylbenzene	ND	0.0050	1	07/17/2020 05:02	
Vinyl Chloride	ND	0.0050	1	07/17/2020 05:02	
m,p-Xylene	ND	0.0050	1	07/17/2020 05:02	
o-Xylene	ND	0.0050	1	07/17/2020 05:02	
Xylenes, Total	ND	0.0050	1	07/17/2020 05:02	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-2	2007558-011A	Soil	07/10/2020 10:25	GC38 07162035.D	201653

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	102	66-116		07/17/2020 05:02
Toluene-d8	110	86-110		07/17/2020 05:02
4-BFB	103	71-114		07/17/2020 05:02
Benzene-d6	103	62-122		07/17/2020 05:02
Ethylbenzene-d10	96	69-130		07/17/2020 05:02
1,2-DCB-d4	80	55-108		07/17/2020 05:02

Analyst(s): AK

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-5	2007558-012A	Soil	07/10/2020 10:25	GC38 07162036.D	201653
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	07/17/2020 05:40	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	07/17/2020 05:40	
Benzene	ND	0.0050	1	07/17/2020 05:40	
Bromobenzene	ND	0.0050	1	07/17/2020 05:40	
Bromochloromethane	ND	0.0050	1	07/17/2020 05:40	
Bromodichloromethane	ND	0.0050	1	07/17/2020 05:40	
Bromoform	ND	0.0050	1	07/17/2020 05:40	
Bromomethane	ND	0.0050	1	07/17/2020 05:40	
2-Butanone (MEK)	ND	0.050	1	07/17/2020 05:40	
t-Butyl alcohol (TBA)	ND	0.050	1	07/17/2020 05:40	
n-Butyl benzene	ND	0.0050	1	07/17/2020 05:40	
sec-Butyl benzene	ND	0.0050	1	07/17/2020 05:40	
tert-Butyl benzene	ND	0.0050	1	07/17/2020 05:40	
Carbon Disulfide	ND	0.0050	1	07/17/2020 05:40	
Carbon Tetrachloride	ND	0.0050	1	07/17/2020 05:40	
Chlorobenzene	ND	0.0050	1	07/17/2020 05:40	
Chloroethane	ND	0.0050	1	07/17/2020 05:40	
Chloroform	ND	0.0050	1	07/17/2020 05:40	
Chloromethane	ND	0.0050	1	07/17/2020 05:40	
2-Chlorotoluene	ND	0.0050	1	07/17/2020 05:40	
4-Chlorotoluene	ND	0.0050	1	07/17/2020 05:40	
Dibromochloromethane	ND	0.0050	1	07/17/2020 05:40	
1,2-Dibromo-3-chloropropane	ND	0.0050	1	07/17/2020 05:40	
1,2-Dibromoethane (EDB)	ND	0.0040	1	07/17/2020 05:40	
Dibromomethane	ND	0.0050	1	07/17/2020 05:40	
1,2-Dichlorobenzene	ND	0.0050	1	07/17/2020 05:40	
1,3-Dichlorobenzene	ND	0.0050	1	07/17/2020 05:40	
1,4-Dichlorobenzene	ND	0.0050	1	07/17/2020 05:40	
Dichlorodifluoromethane	ND	0.0050	1	07/17/2020 05:40	
1,1-Dichloroethane	ND	0.0050	1	07/17/2020 05:40	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	07/17/2020 05:40	
1,1-Dichloroethene	ND	0.0050	1	07/17/2020 05:40	
cis-1,2-Dichloroethene	ND	0.0050	1	07/17/2020 05:40	
trans-1,2-Dichloroethene	ND	0.0050	1	07/17/2020 05:40	
1,2-Dichloropropane	ND	0.0050	1	07/17/2020 05:40	
1,3-Dichloropropane	ND	0.0050	1	07/17/2020 05:40	
2,2-Dichloropropane	ND	0.0050	1	07/17/2020 05:40	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP

**McC Campbell Analytical, Inc.***"When Quality Counts"*1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-5	2007558-012A	Soil	07/10/2020 10:25	GC38 07162036.D	201653
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	07/17/2020 05:40	
cis-1,3-Dichloropropene	ND	0.0050	1	07/17/2020 05:40	
trans-1,3-Dichloropropene	ND	0.0050	1	07/17/2020 05:40	
Diisopropyl ether (DIPE)	ND	0.0050	1	07/17/2020 05:40	
Ethylbenzene	ND	0.0050	1	07/17/2020 05:40	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	07/17/2020 05:40	
Freon 113	ND	0.0050	1	07/17/2020 05:40	
Hexachlorobutadiene	ND	0.0050	1	07/17/2020 05:40	
Hexachloroethane	ND	0.0050	1	07/17/2020 05:40	
2-Hexanone	ND	0.0050	1	07/17/2020 05:40	
Isopropylbenzene	ND	0.0050	1	07/17/2020 05:40	
4-Isopropyl toluene	ND	0.0050	1	07/17/2020 05:40	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	07/17/2020 05:40	
Methylene chloride	ND	0.020	1	07/17/2020 05:40	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	07/17/2020 05:40	
Naphthalene	ND	0.0050	1	07/17/2020 05:40	
n-Propyl benzene	ND	0.0050	1	07/17/2020 05:40	
Styrene	ND	0.0050	1	07/17/2020 05:40	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	07/17/2020 05:40	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	07/17/2020 05:40	
Tetrachloroethene	ND	0.0050	1	07/17/2020 05:40	
Toluene	ND	0.0050	1	07/17/2020 05:40	
1,2,3-Trichlorobenzene	ND	0.0050	1	07/17/2020 05:40	
1,2,4-Trichlorobenzene	ND	0.0050	1	07/17/2020 05:40	
1,1,1-Trichloroethane	ND	0.0050	1	07/17/2020 05:40	
1,1,2-Trichloroethane	ND	0.0050	1	07/17/2020 05:40	
Trichloroethene	ND	0.0050	1	07/17/2020 05:40	
Trichlorofluoromethane	ND	0.0050	1	07/17/2020 05:40	
1,2,3-Trichloropropane	ND	0.0050	1	07/17/2020 05:40	
1,2,4-Trimethylbenzene	ND	0.0050	1	07/17/2020 05:40	
1,3,5-Trimethylbenzene	ND	0.0050	1	07/17/2020 05:40	
Vinyl Chloride	ND	0.0050	1	07/17/2020 05:40	
m,p-Xylene	ND	0.0050	1	07/17/2020 05:40	
o-Xylene	ND	0.0050	1	07/17/2020 05:40	
Xylenes, Total	ND	0.0050	1	07/17/2020 05:40	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-5	2007558-012A	Soil	07/10/2020 10:25	GC38 07162036.D	201653

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	95	66-116		07/17/2020 05:40
Toluene-d8	109	86-110		07/17/2020 05:40
4-BFB	99	71-114		07/17/2020 05:40
Benzene-d6	91	62-122		07/17/2020 05:40
Ethylbenzene-d10	91	69-130		07/17/2020 05:40
1,2-DCB-d4	77	55-108		07/17/2020 05:40

Analyst(s): AK

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-1	2007558-015A	Soil	07/10/2020 11:15	GC16 07162033.D	201653
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	07/17/2020 05:02	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	07/17/2020 05:02	
Benzene	ND	0.0050	1	07/17/2020 05:02	
Bromobenzene	ND	0.0050	1	07/17/2020 05:02	
Bromochloromethane	ND	0.0050	1	07/17/2020 05:02	
Bromodichloromethane	ND	0.0050	1	07/17/2020 05:02	
Bromoform	ND	0.0050	1	07/17/2020 05:02	
Bromomethane	ND	0.0050	1	07/17/2020 05:02	
2-Butanone (MEK)	ND	0.050	1	07/17/2020 05:02	
t-Butyl alcohol (TBA)	ND	0.050	1	07/17/2020 05:02	
n-Butyl benzene	ND	0.0050	1	07/17/2020 05:02	
sec-Butyl benzene	ND	0.0050	1	07/17/2020 05:02	
tert-Butyl benzene	ND	0.0050	1	07/17/2020 05:02	
Carbon Disulfide	ND	0.0050	1	07/17/2020 05:02	
Carbon Tetrachloride	ND	0.0050	1	07/17/2020 05:02	
Chlorobenzene	ND	0.0050	1	07/17/2020 05:02	
Chloroethane	ND	0.0050	1	07/17/2020 05:02	
Chloroform	ND	0.0050	1	07/17/2020 05:02	
Chloromethane	ND	0.0050	1	07/17/2020 05:02	
2-Chlorotoluene	ND	0.0050	1	07/17/2020 05:02	
4-Chlorotoluene	ND	0.0050	1	07/17/2020 05:02	
Dibromochloromethane	ND	0.0050	1	07/17/2020 05:02	
1,2-Dibromo-3-chloropropane	ND	0.0050	1	07/17/2020 05:02	
1,2-Dibromoethane (EDB)	ND	0.0040	1	07/17/2020 05:02	
Dibromomethane	ND	0.0050	1	07/17/2020 05:02	
1,2-Dichlorobenzene	ND	0.0050	1	07/17/2020 05:02	
1,3-Dichlorobenzene	ND	0.0050	1	07/17/2020 05:02	
1,4-Dichlorobenzene	ND	0.0050	1	07/17/2020 05:02	
Dichlorodifluoromethane	ND	0.0050	1	07/17/2020 05:02	
1,1-Dichloroethane	ND	0.0050	1	07/17/2020 05:02	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	07/17/2020 05:02	
1,1-Dichloroethene	ND	0.0050	1	07/17/2020 05:02	
cis-1,2-Dichloroethene	ND	0.0050	1	07/17/2020 05:02	
trans-1,2-Dichloroethene	ND	0.0050	1	07/17/2020 05:02	
1,2-Dichloropropane	ND	0.0050	1	07/17/2020 05:02	
1,3-Dichloropropane	ND	0.0050	1	07/17/2020 05:02	
2,2-Dichloropropane	ND	0.0050	1	07/17/2020 05:02	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-1	2007558-015A	Soil	07/10/2020 11:15	GC16 07162033.D	201653
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	07/17/2020 05:02	
cis-1,3-Dichloropropene	ND	0.0050	1	07/17/2020 05:02	
trans-1,3-Dichloropropene	ND	0.0050	1	07/17/2020 05:02	
Diisopropyl ether (DIPE)	ND	0.0050	1	07/17/2020 05:02	
Ethylbenzene	ND	0.0050	1	07/17/2020 05:02	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	07/17/2020 05:02	
Freon 113	ND	0.0050	1	07/17/2020 05:02	
Hexachlorobutadiene	ND	0.0050	1	07/17/2020 05:02	
Hexachloroethane	ND	0.0050	1	07/17/2020 05:02	
2-Hexanone	ND	0.0050	1	07/17/2020 05:02	
Isopropylbenzene	ND	0.0050	1	07/17/2020 05:02	
4-Isopropyl toluene	ND	0.0050	1	07/17/2020 05:02	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	07/17/2020 05:02	
Methylene chloride	ND	0.020	1	07/17/2020 05:02	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	07/17/2020 05:02	
Naphthalene	ND	0.0050	1	07/17/2020 05:02	
n-Propyl benzene	ND	0.0050	1	07/17/2020 05:02	
Styrene	ND	0.0050	1	07/17/2020 05:02	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	07/17/2020 05:02	
1,1,1,2,2-Tetrachloroethane	ND	0.0050	1	07/17/2020 05:02	
Tetrachloroethene	ND	0.0050	1	07/17/2020 05:02	
Toluene	ND	0.0050	1	07/17/2020 05:02	
1,2,3-Trichlorobenzene	ND	0.0050	1	07/17/2020 05:02	
1,2,4-Trichlorobenzene	ND	0.0050	1	07/17/2020 05:02	
1,1,1-Trichloroethane	ND	0.0050	1	07/17/2020 05:02	
1,1,2-Trichloroethane	ND	0.0050	1	07/17/2020 05:02	
Trichloroethene	ND	0.0050	1	07/17/2020 05:02	
Trichlorofluoromethane	ND	0.0050	1	07/17/2020 05:02	
1,2,3-Trichloropropane	ND	0.0050	1	07/17/2020 05:02	
1,2,4-Trimethylbenzene	ND	0.0050	1	07/17/2020 05:02	
1,3,5-Trimethylbenzene	ND	0.0050	1	07/17/2020 05:02	
Vinyl Chloride	ND	0.0050	1	07/17/2020 05:02	
m,p-Xylene	ND	0.0050	1	07/17/2020 05:02	
o-Xylene	ND	0.0050	1	07/17/2020 05:02	
Xylenes, Total	ND	0.0050	1	07/17/2020 05:02	

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.

Date Received: 07/10/2020 18:00

Date Prepared: 07/13/2020

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

Extraction Method: SW5030B

Analytical Method: SW8260B

Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-1	2007558-015A	Soil	07/10/2020 11:15	GC16 07162033.D	201653

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	102		66-116	07/17/2020 05:02
Toluene-d8	114	S	86-110	07/17/2020 05:02
4-BFB	108		71-114	07/17/2020 05:02
Benzene-d6	102		62-122	07/17/2020 05:02
Ethylbenzene-d10	112		69-130	07/17/2020 05:02
1,2-DCB-d4	77		55-108	07/17/2020 05:02

Analyst(s): KF

Analytical Comments: c2

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP

**McC Campbell Analytical, Inc.***"When Quality Counts"*1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-5	2007558-017A	Soil	07/10/2020 11:15	GC16 07162034.D	201653
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	07/17/2020 05:43	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	07/17/2020 05:43	
Benzene	ND	0.0050	1	07/17/2020 05:43	
Bromobenzene	ND	0.0050	1	07/17/2020 05:43	
Bromochloromethane	ND	0.0050	1	07/17/2020 05:43	
Bromodichloromethane	ND	0.0050	1	07/17/2020 05:43	
Bromoform	ND	0.0050	1	07/17/2020 05:43	
Bromomethane	ND	0.0050	1	07/17/2020 05:43	
2-Butanone (MEK)	ND	0.050	1	07/17/2020 05:43	
t-Butyl alcohol (TBA)	ND	0.050	1	07/17/2020 05:43	
n-Butyl benzene	ND	0.0050	1	07/17/2020 05:43	
sec-Butyl benzene	ND	0.0050	1	07/17/2020 05:43	
tert-Butyl benzene	ND	0.0050	1	07/17/2020 05:43	
Carbon Disulfide	ND	0.0050	1	07/17/2020 05:43	
Carbon Tetrachloride	ND	0.0050	1	07/17/2020 05:43	
Chlorobenzene	ND	0.0050	1	07/17/2020 05:43	
Chloroethane	ND	0.0050	1	07/17/2020 05:43	
Chloroform	ND	0.0050	1	07/17/2020 05:43	
Chloromethane	ND	0.0050	1	07/17/2020 05:43	
2-Chlorotoluene	ND	0.0050	1	07/17/2020 05:43	
4-Chlorotoluene	ND	0.0050	1	07/17/2020 05:43	
Dibromochloromethane	ND	0.0050	1	07/17/2020 05:43	
1,2-Dibromo-3-chloropropane	ND	0.0050	1	07/17/2020 05:43	
1,2-Dibromoethane (EDB)	ND	0.0040	1	07/17/2020 05:43	
Dibromomethane	ND	0.0050	1	07/17/2020 05:43	
1,2-Dichlorobenzene	ND	0.0050	1	07/17/2020 05:43	
1,3-Dichlorobenzene	ND	0.0050	1	07/17/2020 05:43	
1,4-Dichlorobenzene	ND	0.0050	1	07/17/2020 05:43	
Dichlorodifluoromethane	ND	0.0050	1	07/17/2020 05:43	
1,1-Dichloroethane	ND	0.0050	1	07/17/2020 05:43	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	07/17/2020 05:43	
1,1-Dichloroethene	ND	0.0050	1	07/17/2020 05:43	
cis-1,2-Dichloroethene	ND	0.0050	1	07/17/2020 05:43	
trans-1,2-Dichloroethene	ND	0.0050	1	07/17/2020 05:43	
1,2-Dichloropropane	ND	0.0050	1	07/17/2020 05:43	
1,3-Dichloropropane	ND	0.0050	1	07/17/2020 05:43	
2,2-Dichloropropane	ND	0.0050	1	07/17/2020 05:43	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-5	2007558-017A	Soil	07/10/2020 11:15	GC16 07162034.D	201653
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	07/17/2020 05:43	
cis-1,3-Dichloropropene	ND	0.0050	1	07/17/2020 05:43	
trans-1,3-Dichloropropene	ND	0.0050	1	07/17/2020 05:43	
Diisopropyl ether (DIPE)	ND	0.0050	1	07/17/2020 05:43	
Ethylbenzene	ND	0.0050	1	07/17/2020 05:43	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	07/17/2020 05:43	
Freon 113	ND	0.0050	1	07/17/2020 05:43	
Hexachlorobutadiene	ND	0.0050	1	07/17/2020 05:43	
Hexachloroethane	ND	0.0050	1	07/17/2020 05:43	
2-Hexanone	ND	0.0050	1	07/17/2020 05:43	
Isopropylbenzene	ND	0.0050	1	07/17/2020 05:43	
4-Isopropyl toluene	ND	0.0050	1	07/17/2020 05:43	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	07/17/2020 05:43	
Methylene chloride	ND	0.020	1	07/17/2020 05:43	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	07/17/2020 05:43	
Naphthalene	ND	0.0050	1	07/17/2020 05:43	
n-Propyl benzene	ND	0.0050	1	07/17/2020 05:43	
Styrene	ND	0.0050	1	07/17/2020 05:43	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	07/17/2020 05:43	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	07/17/2020 05:43	
Tetrachloroethene	ND	0.0050	1	07/17/2020 05:43	
Toluene	ND	0.0050	1	07/17/2020 05:43	
1,2,3-Trichlorobenzene	ND	0.0050	1	07/17/2020 05:43	
1,2,4-Trichlorobenzene	ND	0.0050	1	07/17/2020 05:43	
1,1,1-Trichloroethane	ND	0.0050	1	07/17/2020 05:43	
1,1,2-Trichloroethane	ND	0.0050	1	07/17/2020 05:43	
Trichloroethene	ND	0.0050	1	07/17/2020 05:43	
Trichlorofluoromethane	ND	0.0050	1	07/17/2020 05:43	
1,2,3-Trichloropropane	ND	0.0050	1	07/17/2020 05:43	
1,2,4-Trimethylbenzene	ND	0.0050	1	07/17/2020 05:43	
1,3,5-Trimethylbenzene	ND	0.0050	1	07/17/2020 05:43	
Vinyl Chloride	ND	0.0050	1	07/17/2020 05:43	
m,p-Xylene	ND	0.0050	1	07/17/2020 05:43	
o-Xylene	ND	0.0050	1	07/17/2020 05:43	
Xylenes, Total	ND	0.0050	1	07/17/2020 05:43	

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-5	2007558-017A	Soil	07/10/2020 11:15	GC16 07162034.D	201653

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	101		66-116	07/17/2020 05:43
Toluene-d8	111	S	86-110	07/17/2020 05:43
4-BFB	110		71-114	07/17/2020 05:43
Benzene-d6	94		62-122	07/17/2020 05:43
Ethylbenzene-d10	99		69-130	07/17/2020 05:43
1,2-DCB-d4	72		55-108	07/17/2020 05:43

Analyst(s): KF

Analytical Comments: c2



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/18/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1	2007558-003C	Water	07/10/2020 13:50	GC16 07172035.D	202085
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	40	1	07/18/2020 05:57	
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/18/2020 05:57	
Benzene	ND	0.50	1	07/18/2020 05:57	
Bromobenzene	ND	0.50	1	07/18/2020 05:57	
Bromochloromethane	ND	0.50	1	07/18/2020 05:57	
Bromodichloromethane	ND	0.50	1	07/18/2020 05:57	
Bromoform	ND	0.50	1	07/18/2020 05:57	
Bromomethane	ND	0.50	1	07/18/2020 05:57	
2-Butanone (MEK)	ND	5.0	1	07/18/2020 05:57	
t-Butyl alcohol (TBA)	ND	5.0	1	07/18/2020 05:57	
n-Butyl benzene	ND	0.50	1	07/18/2020 05:57	
sec-Butyl benzene	ND	0.50	1	07/18/2020 05:57	
tert-Butyl benzene	ND	0.50	1	07/18/2020 05:57	
Carbon Disulfide	ND	0.50	1	07/18/2020 05:57	
Carbon Tetrachloride	ND	0.50	1	07/18/2020 05:57	
Chlorobenzene	ND	0.50	1	07/18/2020 05:57	
Chloroethane	ND	0.50	1	07/18/2020 05:57	
Chloroform	0.63	0.50	1	07/18/2020 05:57	
Chloromethane	ND	0.50	1	07/18/2020 05:57	
2-Chlorotoluene	ND	0.50	1	07/18/2020 05:57	
4-Chlorotoluene	ND	0.50	1	07/18/2020 05:57	
Dibromochloromethane	ND	0.50	1	07/18/2020 05:57	
1,2-Dibromo-3-chloropropane	ND	1.0	1	07/18/2020 05:57	
1,2-Dibromoethane (EDB)	ND	0.50	1	07/18/2020 05:57	
Dibromomethane	ND	0.50	1	07/18/2020 05:57	
1,2-Dichlorobenzene	ND	0.50	1	07/18/2020 05:57	
1,3-Dichlorobenzene	ND	0.50	1	07/18/2020 05:57	
1,4-Dichlorobenzene	ND	0.50	1	07/18/2020 05:57	
Dichlorodifluoromethane	ND	0.50	1	07/18/2020 05:57	
1,1-Dichloroethane	ND	0.50	1	07/18/2020 05:57	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/18/2020 05:57	
1,1-Dichloroethene	ND	0.50	1	07/18/2020 05:57	
cis-1,2-Dichloroethene	ND	0.50	1	07/18/2020 05:57	
trans-1,2-Dichloroethene	ND	0.50	1	07/18/2020 05:57	
1,2-Dichloropropane	ND	0.50	1	07/18/2020 05:57	
1,3-Dichloropropane	ND	0.50	1	07/18/2020 05:57	
2,2-Dichloropropane	ND	0.50	1	07/18/2020 05:57	

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/18/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1	2007558-003C	Water	07/10/2020 13:50	GC16 07172035.D	202085
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.50	1	07/18/2020 05:57	
cis-1,3-Dichloropropene	ND	0.50	1	07/18/2020 05:57	
trans-1,3-Dichloropropene	ND	0.50	1	07/18/2020 05:57	
Diisopropyl ether (DIPE)	ND	0.50	1	07/18/2020 05:57	
Ethylbenzene	ND	0.50	1	07/18/2020 05:57	
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/18/2020 05:57	
Freon 113	ND	0.50	1	07/18/2020 05:57	
Hexachlorobutadiene	ND	0.50	1	07/18/2020 05:57	
Hexachloroethane	ND	0.50	1	07/18/2020 05:57	
2-Hexanone	ND	1.0	1	07/18/2020 05:57	
Isopropylbenzene	ND	0.50	1	07/18/2020 05:57	
4-Isopropyl toluene	ND	0.50	1	07/18/2020 05:57	
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/18/2020 05:57	
Methylene chloride	ND	2.0	1	07/18/2020 05:57	
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/18/2020 05:57	
Naphthalene	ND	1.0	1	07/18/2020 05:57	
n-Propyl benzene	ND	0.50	1	07/18/2020 05:57	
Styrene	ND	2.0	1	07/18/2020 05:57	
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/18/2020 05:57	
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/18/2020 05:57	
Tetrachloroethene	ND	0.50	1	07/18/2020 05:57	
Toluene	ND	0.50	1	07/18/2020 05:57	
1,2,3-Trichlorobenzene	ND	0.50	1	07/18/2020 05:57	
1,2,4-Trichlorobenzene	ND	0.50	1	07/18/2020 05:57	
1,1,1-Trichloroethane	ND	0.50	1	07/18/2020 05:57	
1,1,2-Trichloroethane	ND	0.50	1	07/18/2020 05:57	
Trichloroethene	ND	0.50	1	07/18/2020 05:57	
Trichlorofluoromethane	ND	0.50	1	07/18/2020 05:57	
1,2,3-Trichloropropane	ND	0.50	1	07/18/2020 05:57	
1,2,4-Trimethylbenzene	ND	0.50	1	07/18/2020 05:57	
1,3,5-Trimethylbenzene	ND	0.50	1	07/18/2020 05:57	
Vinyl Chloride	ND	0.50	1	07/18/2020 05:57	
m,p-Xylene	ND	0.50	1	07/18/2020 05:57	
o-Xylene	ND	0.50	1	07/18/2020 05:57	
Xylenes, Total	ND	0.50	1	07/18/2020 05:57	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/18/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1030	2007558-003C	Water	07/10/2020 13:50	GC16 07172035.D	202085

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	106	78-112		07/18/2020 05:57
Toluene-d8	95	82-109		07/18/2020 05:57
4-BFB	97	63-121		07/18/2020 05:57
Analyst(s): KF				

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/18/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP7	2007558-018C	Water	07/10/2020 14:30	GC16 07182011.D	202090
Analytes	Result	RL	DE	Date Analyzed	
Acetone	ND	40	1	07/18/2020 13:45	
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/18/2020 13:45	
Benzene	ND	0.50	1	07/18/2020 13:45	
Bromobenzene	ND	0.50	1	07/18/2020 13:45	
Bromochloromethane	ND	0.50	1	07/18/2020 13:45	
Bromodichloromethane	ND	0.50	1	07/18/2020 13:45	
Bromoform	ND	0.50	1	07/18/2020 13:45	
Bromomethane	ND	0.50	1	07/18/2020 13:45	
2-Butanone (MEK)	ND	5.0	1	07/18/2020 13:45	
t-Butyl alcohol (TBA)	ND	5.0	1	07/18/2020 13:45	
n-Butyl benzene	ND	0.50	1	07/18/2020 13:45	
sec-Butyl benzene	ND	0.50	1	07/18/2020 13:45	
tert-Butyl benzene	ND	0.50	1	07/18/2020 13:45	
Carbon Disulfide	ND	0.50	1	07/18/2020 13:45	
Carbon Tetrachloride	ND	0.50	1	07/18/2020 13:45	
Chlorobenzene	ND	0.50	1	07/18/2020 13:45	
Chloroethane	ND	0.50	1	07/18/2020 13:45	
Chloroform	ND	0.50	1	07/18/2020 13:45	
Chloromethane	ND	0.50	1	07/18/2020 13:45	
2-Chlorotoluene	ND	0.50	1	07/18/2020 13:45	
4-Chlorotoluene	ND	0.50	1	07/18/2020 13:45	
Dibromochloromethane	ND	0.50	1	07/18/2020 13:45	
1,2-Dibromo-3-chloropropane	ND	1.0	1	07/18/2020 13:45	
1,2-Dibromoethane (EDB)	ND	0.50	1	07/18/2020 13:45	
Dibromomethane	ND	0.50	1	07/18/2020 13:45	
1,2-Dichlorobenzene	ND	0.50	1	07/18/2020 13:45	
1,3-Dichlorobenzene	ND	0.50	1	07/18/2020 13:45	
1,4-Dichlorobenzene	ND	0.50	1	07/18/2020 13:45	
Dichlorodifluoromethane	ND	0.50	1	07/18/2020 13:45	
1,1-Dichloroethane	ND	0.50	1	07/18/2020 13:45	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/18/2020 13:45	
1,1-Dichloroethene	ND	0.50	1	07/18/2020 13:45	
cis-1,2-Dichloroethene	ND	0.50	1	07/18/2020 13:45	
trans-1,2-Dichloroethene	ND	0.50	1	07/18/2020 13:45	
1,2-Dichloropropane	ND	0.50	1	07/18/2020 13:45	
1,3-Dichloropropane	ND	0.50	1	07/18/2020 13:45	
2,2-Dichloropropane	ND	0.50	1	07/18/2020 13:45	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.

Date Received: 07/10/2020 18:00

Date Prepared: 07/18/2020

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

Extraction Method: SW5030B

Analytical Method: SW8260B

Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP7	2007558-018C	Water	07/10/2020 14:30	GC16 07182011.D	202090
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.50	1	07/18/2020 13:45	
cis-1,3-Dichloropropene	ND	0.50	1	07/18/2020 13:45	
trans-1,3-Dichloropropene	ND	0.50	1	07/18/2020 13:45	
Diisopropyl ether (DIPE)	ND	0.50	1	07/18/2020 13:45	
Ethylbenzene	ND	0.50	1	07/18/2020 13:45	
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/18/2020 13:45	
Freon 113	ND	0.50	1	07/18/2020 13:45	
Hexachlorobutadiene	ND	0.50	1	07/18/2020 13:45	
Hexachloroethane	ND	0.50	1	07/18/2020 13:45	
2-Hexanone	ND	1.0	1	07/18/2020 13:45	
Isopropylbenzene	ND	0.50	1	07/18/2020 13:45	
4-Isopropyl toluene	ND	0.50	1	07/18/2020 13:45	
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/18/2020 13:45	
Methylene chloride	ND	2.0	1	07/18/2020 13:45	
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/18/2020 13:45	
Naphthalene	ND	1.0	1	07/18/2020 13:45	
n-Propyl benzene	ND	0.50	1	07/18/2020 13:45	
Styrene	ND	2.0	1	07/18/2020 13:45	
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/18/2020 13:45	
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/18/2020 13:45	
Tetrachloroethene	ND	0.50	1	07/18/2020 13:45	
Toluene	ND	0.50	1	07/18/2020 13:45	
1,2,3-Trichlorobenzene	ND	0.50	1	07/18/2020 13:45	
1,2,4-Trichlorobenzene	ND	0.50	1	07/18/2020 13:45	
1,1,1-Trichloroethane	ND	0.50	1	07/18/2020 13:45	
1,1,2-Trichloroethane	ND	0.50	1	07/18/2020 13:45	
Trichloroethene	ND	0.50	1	07/18/2020 13:45	
Trichlorofluoromethane	ND	0.50	1	07/18/2020 13:45	
1,2,3-Trichloropropane	ND	0.50	1	07/18/2020 13:45	
1,2,4-Trimethylbenzene	ND	0.50	1	07/18/2020 13:45	
1,3,5-Trimethylbenzene	ND	0.50	1	07/18/2020 13:45	
Vinyl Chloride	ND	0.50	1	07/18/2020 13:45	
m,p-Xylene	ND	0.50	1	07/18/2020 13:45	
o-Xylene	ND	0.50	1	07/18/2020 13:45	
Xylenes, Total	ND	0.50	1	07/18/2020 13:45	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/18/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP7	2007558-018C	Water	07/10/2020 14:30	GC16 07182011.D	202090
<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>		<u>Date Analyzed</u>
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	106		78-112		07/18/2020 13:45
Toluene-d8	94		82-109		07/18/2020 13:45
4-BFB	96		63-121		07/18/2020 13:45
<u>Analyst(s):</u> KF					



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	2007558-004A	Soil	07/10/2020 08:45	GC21 07182016.D	201664
Analytes	Result	RL	DF	Date Analyzed	
Acenaphthene	ND	0.0013	1	07/18/2020 15:49	
Acenaphthylene	ND	0.0013	1	07/18/2020 15:49	
Acetochlor	ND	0.25	1	07/18/2020 15:49	
Anthracene	ND	0.0013	1	07/18/2020 15:49	
Benzidine	ND	1.2	1	07/18/2020 15:49	
Benzo (a) anthracene	ND	0.013	1	07/18/2020 15:49	
Benzo (a) pyrene	ND	0.0025	1	07/18/2020 15:49	
Benzo (b) fluoranthene	ND	0.0025	1	07/18/2020 15:49	
Benzo (g,h,i) perylene	ND	0.0025	1	07/18/2020 15:49	
Benzo (k) fluoranthene	ND	0.0025	1	07/18/2020 15:49	
Benzyl Alcohol	ND	1.2	1	07/18/2020 15:49	
1,1-Biphenyl	ND	0.013	1	07/18/2020 15:49	
Bis (2-chloroethoxy) Methane	ND	0.25	1	07/18/2020 15:49	
Bis (2-chloroethyl) Ether	ND	0.0025	1	07/18/2020 15:49	
Bis (2-chloroisopropyl) Ether	ND	0.013	1	07/18/2020 15:49	
Bis (2-ethylhexyl) Adipate	ND	0.25	1	07/18/2020 15:49	
Bis (2-ethylhexyl) Phthalate	ND	0.025	1	07/18/2020 15:49	
4-Bromophenyl Phenyl Ether	ND	0.25	1	07/18/2020 15:49	
Butylbenzyl Phthalate	ND	0.025	1	07/18/2020 15:49	
4-Chloroaniline	ND	0.0013	1	07/18/2020 15:49	
4-Chloro-3-methylphenol	ND	0.25	1	07/18/2020 15:49	
2-Chloronaphthalene	ND	0.25	1	07/18/2020 15:49	
2-Chlorophenol	ND	0.013	1	07/18/2020 15:49	
4-Chlorophenyl Phenyl Ether	ND	0.25	1	07/18/2020 15:49	
Chrysene	ND	0.0025	1	07/18/2020 15:49	
Dibenzo (a,h) anthracene	ND	0.0025	1	07/18/2020 15:49	
Dibenzofuran	ND	0.25	1	07/18/2020 15:49	
Di-n-butyl Phthalate	ND	0.013	1	07/18/2020 15:49	
1,2-Dichlorobenzene	ND	0.25	1	07/18/2020 15:49	
1,3-Dichlorobenzene	ND	0.25	1	07/18/2020 15:49	
1,4-Dichlorobenzene	ND	0.25	1	07/18/2020 15:49	
3,3-Dichlorobenzidine	ND	0.0025	1	07/18/2020 15:49	
2,4-Dichlorophenol	ND	0.0013	1	07/18/2020 15:49	
Diethyl Phthalate	ND	0.013	1	07/18/2020 15:49	
2,4-Dimethylphenol	ND	0.25	1	07/18/2020 15:49	
Dimethyl Phthalate	ND	0.0025	1	07/18/2020 15:49	
4,6-Dinitro-2-methylphenol	ND	1.2	1	07/18/2020 15:49	

(Cont.)



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	2007558-004A	Soil	07/10/2020 08:45	GC21 07182016.D	201664
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	0.25	1	07/18/2020 15:49	
2,4-Dinitrotoluene	ND	0.013	1	07/18/2020 15:49	
2,6-Dinitrotoluene	ND	0.013	1	07/18/2020 15:49	
Di-n-octyl Phthalate	ND	0.013	1	07/18/2020 15:49	
1,2-Diphenylhydrazine	ND	0.25	1	07/18/2020 15:49	
Fluoranthene	ND	0.0025	1	07/18/2020 15:49	
Fluorene	ND	0.0025	1	07/18/2020 15:49	
Hexachlorobenzene	ND	0.0025	1	07/18/2020 15:49	
Hexachlorobutadiene	ND	0.0013	1	07/18/2020 15:49	
Hexachlorocyclopentadiene	ND	2.0	1	07/18/2020 15:49	
Hexachloroethane	ND	0.013	1	07/18/2020 15:49	
Indeno (1,2,3-cd) pyrene	ND	0.013	1	07/18/2020 15:49	
Isophorone	ND	0.25	1	07/18/2020 15:49	
1-Methylnaphthalene	ND	0.0013	1	07/18/2020 15:49	
2-Methylnaphthalene	ND	0.0013	1	07/18/2020 15:49	
2-Methylphenol (o-Cresol)	ND	0.25	1	07/18/2020 15:49	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	07/18/2020 15:49	
Naphthalene	ND	0.0013	1	07/18/2020 15:49	
2-Nitroaniline	ND	1.2	1	07/18/2020 15:49	
3-Nitroaniline	ND	1.2	1	07/18/2020 15:49	
4-Nitroaniline	ND	1.2	1	07/18/2020 15:49	
Nitrobenzene	ND	0.25	1	07/18/2020 15:49	
2-Nitrophenol	ND	1.2	1	07/18/2020 15:49	
4-Nitrophenol	ND	1.2	1	07/18/2020 15:49	
N-Nitrosodiphenylamine	ND	0.25	1	07/18/2020 15:49	
N-Nitrosodi-n-propylamine	ND	0.25	1	07/18/2020 15:49	
Pentachlorophenol	ND	0.062	1	07/18/2020 15:49	
Phenanthrene	ND	0.0050	1	07/18/2020 15:49	
Phenol	ND	0.050	1	07/18/2020 15:49	
Pyrene	ND	0.0025	1	07/18/2020 15:49	
Pyridine	ND	0.25	1	07/18/2020 15:49	
1,2,4-Trichlorobenzene	ND	0.25	1	07/18/2020 15:49	
2,4,5-Trichlorophenol	ND	0.0025	1	07/18/2020 15:49	
2,4,6-Trichlorophenol	ND	0.0025	1	07/18/2020 15:49	

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.

Date Received: 07/10/2020 18:00

Date Prepared: 07/13/2020

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

Extraction Method: SW3550B

Analytical Method: SW8270C

Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	2007558-004A	Soil	07/10/2020 08:45	GC21 07182016.D	201664

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
2-Fluorophenol	88		60-130	07/18/2020 15:49
Phenol-d5	81		50-130	07/18/2020 15:49
Nitrobenzene-d5	72		60-130	07/18/2020 15:49
2-Fluorobiphenyl	78		60-130	07/18/2020 15:49
2,4,6-Tribromophenol	19	S	50-130	07/18/2020 15:49
4-Terphenyl-d14	77		50-130	07/18/2020 15:49

Analyst(s): HD

Analytical Comments: c2

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-5	2007558-005A	Soil	07/10/2020 08:47	GC21 07182017.D	201664
Analytes	Result	RL	DF	Date Analyzed	
Acenaphthene	ND	0.0013	1	07/18/2020 16:17	
Acenaphthylene	ND	0.0013	1	07/18/2020 16:17	
Acetochlor	ND	0.25	1	07/18/2020 16:17	
Anthracene	ND	0.0013	1	07/18/2020 16:17	
Benzidine	ND	1.2	1	07/18/2020 16:17	
Benzo (a) anthracene	ND	0.013	1	07/18/2020 16:17	
Benzo (a) pyrene	ND	0.0025	1	07/18/2020 16:17	
Benzo (b) fluoranthene	ND	0.0025	1	07/18/2020 16:17	
Benzo (g,h,i) perylene	ND	0.0025	1	07/18/2020 16:17	
Benzo (k) fluoranthene	ND	0.0025	1	07/18/2020 16:17	
Benzyl Alcohol	ND	1.2	1	07/18/2020 16:17	
1,1-Biphenyl	ND	0.013	1	07/18/2020 16:17	
Bis (2-chloroethoxy) Methane	ND	0.25	1	07/18/2020 16:17	
Bis (2-chloroethyl) Ether	ND	0.0025	1	07/18/2020 16:17	
Bis (2-chloroisopropyl) Ether	ND	0.013	1	07/18/2020 16:17	
Bis (2-ethylhexyl) Adipate	ND	0.25	1	07/18/2020 16:17	
Bis (2-ethylhexyl) Phthalate	ND	0.025	1	07/18/2020 16:17	
4-Bromophenyl Phenyl Ether	ND	0.25	1	07/18/2020 16:17	
Butylbenzyl Phthalate	ND	0.025	1	07/18/2020 16:17	
4-Chloroaniline	ND	0.0013	1	07/18/2020 16:17	
4-Chloro-3-methylphenol	ND	0.25	1	07/18/2020 16:17	
2-Chloronaphthalene	ND	0.25	1	07/18/2020 16:17	
2-Chlorophenol	ND	0.013	1	07/18/2020 16:17	
4-Chlorophenyl Phenyl Ether	ND	0.25	1	07/18/2020 16:17	
Chrysene	ND	0.0025	1	07/18/2020 16:17	
Dibenzo (a,h) anthracene	ND	0.0025	1	07/18/2020 16:17	
Dibenzofuran	ND	0.25	1	07/18/2020 16:17	
Di-n-butyl Phthalate	ND	0.013	1	07/18/2020 16:17	
1,2-Dichlorobenzene	ND	0.25	1	07/18/2020 16:17	
1,3-Dichlorobenzene	ND	0.25	1	07/18/2020 16:17	
1,4-Dichlorobenzene	ND	0.25	1	07/18/2020 16:17	
3,3-Dichlorobenzidine	ND	0.0025	1	07/18/2020 16:17	
2,4-Dichlorophenol	ND	0.0013	1	07/18/2020 16:17	
Diethyl Phthalate	ND	0.013	1	07/18/2020 16:17	
2,4-Dimethylphenol	ND	0.25	1	07/18/2020 16:17	
Dimethyl Phthalate	ND	0.0025	1	07/18/2020 16:17	
4,6-Dinitro-2-methylphenol	ND	1.2	1	07/18/2020 16:17	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-5	2007558-005A	Soil	07/10/2020 08:47	GC21 07182017.D	201664
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	0.25	1	07/18/2020 16:17	
2,4-Dinitrotoluene	ND	0.013	1	07/18/2020 16:17	
2,6-Dinitrotoluene	ND	0.013	1	07/18/2020 16:17	
Di-n-octyl Phthalate	ND	0.013	1	07/18/2020 16:17	
1,2-Diphenylhydrazine	ND	0.25	1	07/18/2020 16:17	
Fluoranthene	ND	0.0025	1	07/18/2020 16:17	
Fluorene	ND	0.0025	1	07/18/2020 16:17	
Hexachlorobenzene	ND	0.0025	1	07/18/2020 16:17	
Hexachlorobutadiene	ND	0.0013	1	07/18/2020 16:17	
Hexachlorocyclopentadiene	ND	2.0	1	07/18/2020 16:17	
Hexachloroethane	ND	0.013	1	07/18/2020 16:17	
Indeno (1,2,3-cd) pyrene	ND	0.013	1	07/18/2020 16:17	
Isophorone	ND	0.25	1	07/18/2020 16:17	
1-Methylnaphthalene	ND	0.0013	1	07/18/2020 16:17	
2-Methylnaphthalene	ND	0.0013	1	07/18/2020 16:17	
2-Methylphenol (o-Cresol)	ND	0.25	1	07/18/2020 16:17	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	07/18/2020 16:17	
Naphthalene	ND	0.0013	1	07/18/2020 16:17	
2-Nitroaniline	ND	1.2	1	07/18/2020 16:17	
3-Nitroaniline	ND	1.2	1	07/18/2020 16:17	
4-Nitroaniline	ND	1.2	1	07/18/2020 16:17	
Nitrobenzene	ND	0.25	1	07/18/2020 16:17	
2-Nitrophenol	ND	1.2	1	07/18/2020 16:17	
4-Nitrophenol	ND	1.2	1	07/18/2020 16:17	
N-Nitrosodiphenylamine	ND	0.25	1	07/18/2020 16:17	
N-Nitrosodi-n-propylamine	ND	0.25	1	07/18/2020 16:17	
Pentachlorophenol	ND	0.062	1	07/18/2020 16:17	
Phenanthrene	ND	0.0050	1	07/18/2020 16:17	
Phenol	ND	0.050	1	07/18/2020 16:17	
Pyrene	ND	0.0025	1	07/18/2020 16:17	
Pyridine	ND	0.25	1	07/18/2020 16:17	
1,2,4-Trichlorobenzene	ND	0.25	1	07/18/2020 16:17	
2,4,5-Trichlorophenol	ND	0.0025	1	07/18/2020 16:17	
2,4,6-Trichlorophenol	ND	0.0025	1	07/18/2020 16:17	

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-5	2007558-005A	Soil	07/10/2020 08:47	GC21 07182017.D	201664

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
2-Fluorophenol	87		60-130	07/18/2020 16:17
Phenol-d5	81		50-130	07/18/2020 16:17
Nitrobenzene-d5	74		60-130	07/18/2020 16:17
2-Fluorobiphenyl	76		60-130	07/18/2020 16:17
2,4,6-Tribromophenol	20	S	50-130	07/18/2020 16:17
4-Terphenyl-d14	75		50-130	07/18/2020 16:17

Analyst(s): HD

Analytical Comments: c2

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-2	2007558-011B	Soil	07/10/2020 10:55	GC21 07182018.D	201664
Analytes	Result	RL	DF	Date Analyzed	
Acenaphthene	ND	0.0013	1	07/18/2020 16:44	
Acenaphthylene	ND	0.0013	1	07/18/2020 16:44	
Acetochlor	ND	0.25	1	07/18/2020 16:44	
Anthracene	ND	0.0013	1	07/18/2020 16:44	
Benzidine	ND	1.2	1	07/18/2020 16:44	
Benzo (a) anthracene	ND	0.013	1	07/18/2020 16:44	
Benzo (a) pyrene	ND	0.0025	1	07/18/2020 16:44	
Benzo (b) fluoranthene	ND	0.0025	1	07/18/2020 16:44	
Benzo (g,h,i) perylene	ND	0.0025	1	07/18/2020 16:44	
Benzo (k) fluoranthene	ND	0.0025	1	07/18/2020 16:44	
Benzyl Alcohol	ND	1.2	1	07/18/2020 16:44	
1,1-Biphenyl	ND	0.013	1	07/18/2020 16:44	
Bis (2-chloroethoxy) Methane	ND	0.25	1	07/18/2020 16:44	
Bis (2-chloroethyl) Ether	ND	0.0025	1	07/18/2020 16:44	
Bis (2-chloroisopropyl) Ether	ND	0.013	1	07/18/2020 16:44	
Bis (2-ethylhexyl) Adipate	ND	0.25	1	07/18/2020 16:44	
Bis (2-ethylhexyl) Phthalate	ND	0.025	1	07/18/2020 16:44	
4-Bromophenyl Phenyl Ether	ND	0.25	1	07/18/2020 16:44	
Butylbenzyl Phthalate	ND	0.025	1	07/18/2020 16:44	
4-Chloroaniline	ND	0.0013	1	07/18/2020 16:44	
4-Chloro-3-methylphenol	ND	0.25	1	07/18/2020 16:44	
2-Chloronaphthalene	ND	0.25	1	07/18/2020 16:44	
2-Chlorophenol	ND	0.013	1	07/18/2020 16:44	
4-Chlorophenyl Phenyl Ether	ND	0.25	1	07/18/2020 16:44	
Chrysene	ND	0.0025	1	07/18/2020 16:44	
Dibenzo (a,h) anthracene	ND	0.0025	1	07/18/2020 16:44	
Dibenzofuran	ND	0.25	1	07/18/2020 16:44	
Di-n-butyl Phthalate	ND	0.013	1	07/18/2020 16:44	
1,2-Dichlorobenzene	ND	0.25	1	07/18/2020 16:44	
1,3-Dichlorobenzene	ND	0.25	1	07/18/2020 16:44	
1,4-Dichlorobenzene	ND	0.25	1	07/18/2020 16:44	
3,3-Dichlorobenzidine	ND	0.0025	1	07/18/2020 16:44	
2,4-Dichlorophenol	ND	0.0013	1	07/18/2020 16:44	
Diethyl Phthalate	ND	0.013	1	07/18/2020 16:44	
2,4-Dimethylphenol	ND	0.25	1	07/18/2020 16:44	
Dimethyl Phthalate	ND	0.0025	1	07/18/2020 16:44	
4,6-Dinitro-2-methylphenol	ND	1.2	1	07/18/2020 16:44	

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-2	2007558-011B	Soil	07/10/2020 10:55	GC21 07182018.D	201664
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	0.25	1	07/18/2020 16:44	
2,4-Dinitrotoluene	ND	0.013	1	07/18/2020 16:44	
2,6-Dinitrotoluene	ND	0.013	1	07/18/2020 16:44	
Di-n-octyl Phthalate	ND	0.013	1	07/18/2020 16:44	
1,2-Diphenylhydrazine	ND	0.25	1	07/18/2020 16:44	
Fluoranthene	ND	0.0025	1	07/18/2020 16:44	
Fluorene	ND	0.0025	1	07/18/2020 16:44	
Hexachlorobenzene	ND	0.0025	1	07/18/2020 16:44	
Hexachlorobutadiene	ND	0.0013	1	07/18/2020 16:44	
Hexachlorocyclopentadiene	ND	2.0	1	07/18/2020 16:44	
Hexachloroethane	ND	0.013	1	07/18/2020 16:44	
Indeno (1,2,3-cd) pyrene	ND	0.013	1	07/18/2020 16:44	
Isophorone	ND	0.25	1	07/18/2020 16:44	
1-Methylnaphthalene	ND	0.0013	1	07/18/2020 16:44	
2-Methylnaphthalene	ND	0.0013	1	07/18/2020 16:44	
2-Methylphenol (o-Cresol)	ND	0.25	1	07/18/2020 16:44	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	07/18/2020 16:44	
Naphthalene	ND	0.0013	1	07/18/2020 16:44	
2-Nitroaniline	ND	1.2	1	07/18/2020 16:44	
3-Nitroaniline	ND	1.2	1	07/18/2020 16:44	
4-Nitroaniline	ND	1.2	1	07/18/2020 16:44	
Nitrobenzene	ND	0.25	1	07/18/2020 16:44	
2-Nitrophenol	ND	1.2	1	07/18/2020 16:44	
4-Nitrophenol	ND	1.2	1	07/18/2020 16:44	
N-Nitrosodiphenylamine	ND	0.25	1	07/18/2020 16:44	
N-Nitrosodi-n-propylamine	ND	0.25	1	07/18/2020 16:44	
Pentachlorophenol	ND	0.062	1	07/18/2020 16:44	
Phenanthrene	ND	0.0050	1	07/18/2020 16:44	
Phenol	ND	0.050	1	07/18/2020 16:44	
Pyrene	ND	0.0025	1	07/18/2020 16:44	
Pyridine	ND	0.25	1	07/18/2020 16:44	
1,2,4-Trichlorobenzene	ND	0.25	1	07/18/2020 16:44	
2,4,5-Trichlorophenol	ND	0.0025	1	07/18/2020 16:44	
2,4,6-Trichlorophenol	ND	0.0025	1	07/18/2020 16:44	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-2	2007558-011B	Soil	07/10/2020 10:55	GC21 07182018.D	201664

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits	
2-Fluorophenol	80		60-130	07/18/2020 16:44
Phenol-d5	73		50-130	07/18/2020 16:44
Nitrobenzene-d5	67		60-130	07/18/2020 16:44
2-Fluorobiphenyl	69		60-130	07/18/2020 16:44
2,4,6-Tribromophenol	15	S	50-130	07/18/2020 16:44
4-Terphenyl-d14	72		50-130	07/18/2020 16:44

Analyst(s): HD

Analytical Comments: c2

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-5	2007558-012B	Soil	07/10/2020 10:55	GC21 07182020.D	201664
Analytes	Result	RL	DF	Date Analyzed	
Acenaphthene	ND	0.0026	2	07/18/2020 17:39	
Acenaphthylene	ND	0.0026	2	07/18/2020 17:39	
Acetochlor	ND	0.50	2	07/18/2020 17:39	
Anthracene	ND	0.0026	2	07/18/2020 17:39	
Benzidine	ND	2.5	2	07/18/2020 17:39	
Benzo (a) anthracene	ND	0.026	2	07/18/2020 17:39	
Benzo (a) pyrene	ND	0.0050	2	07/18/2020 17:39	
Benzo (b) fluoranthene	ND	0.0050	2	07/18/2020 17:39	
Benzo (g,h,i) perylene	0.0093	0.0050	2	07/18/2020 17:39	
Benzo (k) fluoranthene	ND	0.0050	2	07/18/2020 17:39	
Benzyl Alcohol	ND	2.5	2	07/18/2020 17:39	
1,1-Biphenyl	ND	0.026	2	07/18/2020 17:39	
Bis (2-chloroethoxy) Methane	ND	0.50	2	07/18/2020 17:39	
Bis (2-chloroethyl) Ether	ND	0.0050	2	07/18/2020 17:39	
Bis (2-chloroisopropyl) Ether	ND	0.026	2	07/18/2020 17:39	
Bis (2-ethylhexyl) Adipate	ND	0.50	2	07/18/2020 17:39	
Bis (2-ethylhexyl) Phthalate	ND	0.050	2	07/18/2020 17:39	
4-Bromophenyl Phenyl Ether	ND	0.50	2	07/18/2020 17:39	
Butylbenzyl Phthalate	ND	0.050	2	07/18/2020 17:39	
4-Chloroaniline	ND	0.0026	2	07/18/2020 17:39	
4-Chloro-3-methylphenol	ND	0.50	2	07/18/2020 17:39	
2-Chloronaphthalene	ND	0.50	2	07/18/2020 17:39	
2-Chlorophenol	ND	0.026	2	07/18/2020 17:39	
4-Chlorophenyl Phenyl Ether	ND	0.50	2	07/18/2020 17:39	
Chrysene	ND	0.0050	2	07/18/2020 17:39	
Dibenzo (a,h) anthracene	ND	0.0050	2	07/18/2020 17:39	
Dibenzofuran	ND	0.50	2	07/18/2020 17:39	
Di-n-butyl Phthalate	ND	0.026	2	07/18/2020 17:39	
1,2-Dichlorobenzene	ND	0.50	2	07/18/2020 17:39	
1,3-Dichlorobenzene	ND	0.50	2	07/18/2020 17:39	
1,4-Dichlorobenzene	ND	0.50	2	07/18/2020 17:39	
3,3-Dichlorobenzidine	ND	0.0050	2	07/18/2020 17:39	
2,4-Dichlorophenol	ND	0.0026	2	07/18/2020 17:39	
Diethyl Phthalate	ND	0.026	2	07/18/2020 17:39	
2,4-Dimethylphenol	ND	0.50	2	07/18/2020 17:39	
Dimethyl Phthalate	ND	0.0050	2	07/18/2020 17:39	
4,6-Dinitro-2-methylphenol	ND	2.5	2	07/18/2020 17:39	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-5	2007558-012B	Soil	07/10/2020 10:55	GC21 07182020.D	201664
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	0.50	2	07/18/2020 17:39	
2,4-Dinitrotoluene	ND	0.026	2	07/18/2020 17:39	
2,6-Dinitrotoluene	ND	0.026	2	07/18/2020 17:39	
Di-n-octyl Phthalate	ND	0.026	2	07/18/2020 17:39	
1,2-Diphenylhydrazine	ND	0.50	2	07/18/2020 17:39	
Fluoranthene	ND	0.0050	2	07/18/2020 17:39	
Fluorene	ND	0.0050	2	07/18/2020 17:39	
Hexachlorobenzene	ND	0.0050	2	07/18/2020 17:39	
Hexachlorobutadiene	ND	0.0026	2	07/18/2020 17:39	
Hexachlorocyclopentadiene	ND	4.0	2	07/18/2020 17:39	
Hexachloroethane	ND	0.026	2	07/18/2020 17:39	
Indeno (1,2,3-cd) pyrene	ND	0.026	2	07/18/2020 17:39	
Isophorone	ND	0.50	2	07/18/2020 17:39	
1-Methylnaphthalene	ND	0.0026	2	07/18/2020 17:39	
2-Methylnaphthalene	ND	0.0026	2	07/18/2020 17:39	
2-Methylphenol (o-Cresol)	ND	0.50	2	07/18/2020 17:39	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.50	2	07/18/2020 17:39	
Naphthalene	ND	0.0026	2	07/18/2020 17:39	
2-Nitroaniline	ND	2.5	2	07/18/2020 17:39	
3-Nitroaniline	ND	2.5	2	07/18/2020 17:39	
4-Nitroaniline	ND	2.5	2	07/18/2020 17:39	
Nitrobenzene	ND	0.50	2	07/18/2020 17:39	
2-Nitrophenol	ND	2.5	2	07/18/2020 17:39	
4-Nitrophenol	ND	2.5	2	07/18/2020 17:39	
N-Nitrosodiphenylamine	ND	0.50	2	07/18/2020 17:39	
N-Nitrosodi-n-propylamine	ND	0.50	2	07/18/2020 17:39	
Pentachlorophenol	ND	0.12	2	07/18/2020 17:39	
Phenanthrene	ND	0.010	2	07/18/2020 17:39	
Phenol	ND	0.10	2	07/18/2020 17:39	
Pyrene	ND	0.0050	2	07/18/2020 17:39	
Pyridine	ND	0.50	2	07/18/2020 17:39	
1,2,4-Trichlorobenzene	ND	0.50	2	07/18/2020 17:39	
2,4,5-Trichlorophenol	ND	0.0050	2	07/18/2020 17:39	
2,4,6-Trichlorophenol	ND	0.0050	2	07/18/2020 17:39	

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-5	2007558-012B	Soil	07/10/2020 10:55	GC21 07182020.D	201664

Analytes	Result	RL	DE	Date Analyzed
----------	--------	----	----	---------------

Surrogates	REC (%)	Qualifiers	Limits	
2-Fluorophenol	84		60-130	07/18/2020 17:39
Phenol-d5	81		50-130	07/18/2020 17:39
Nitrobenzene-d5	67		60-130	07/18/2020 17:39
2-Fluorobiphenyl	77		60-130	07/18/2020 17:39
2,4,6-Tribromophenol	19	S	50-130	07/18/2020 17:39
4-Terphenyl-d14	80		50-130	07/18/2020 17:39

Analyst(s): HD

Analytical Comments: c1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-1	2007558-015B	Soil	07/10/2020 11:20	GC21 07182021.D	201664
Analytes	Result	RL	DF	Date Analyzed	
Acenaphthene	ND	0.021	2	07/18/2020 18:06	
Acenaphthylene	ND	0.021	2	07/18/2020 18:06	
Acetochlor	ND	4.0	2	07/18/2020 18:06	
Anthracene	ND	0.021	2	07/18/2020 18:06	
Benzidine	ND	20	2	07/18/2020 18:06	
Benzo (a) anthracene	ND	0.21	2	07/18/2020 18:06	
Benzo (a) pyrene	ND	0.040	2	07/18/2020 18:06	
Benzo (b) fluoranthene	ND	0.040	2	07/18/2020 18:06	
Benzo (g,h,i) perylene	ND	0.040	2	07/18/2020 18:06	
Benzo (k) fluoranthene	ND	0.040	2	07/18/2020 18:06	
Benzyl Alcohol	ND	20	2	07/18/2020 18:06	
1,1-Biphenyl	ND	0.21	2	07/18/2020 18:06	
Bis (2-chloroethoxy) Methane	ND	4.0	2	07/18/2020 18:06	
Bis (2-chloroethyl) Ether	ND	0.040	2	07/18/2020 18:06	
Bis (2-chloroisopropyl) Ether	ND	0.21	2	07/18/2020 18:06	
Bis (2-ethylhexyl) Adipate	ND	4.0	2	07/18/2020 18:06	
Bis (2-ethylhexyl) Phthalate	ND	0.40	2	07/18/2020 18:06	
4-Bromophenyl Phenyl Ether	ND	4.0	2	07/18/2020 18:06	
Butylbenzyl Phthalate	ND	0.40	2	07/18/2020 18:06	
4-Chloroaniline	ND	0.021	2	07/18/2020 18:06	
4-Chloro-3-methylphenol	ND	4.0	2	07/18/2020 18:06	
2-Chloronaphthalene	ND	4.0	2	07/18/2020 18:06	
2-Chlorophenol	ND	0.21	2	07/18/2020 18:06	
4-Chlorophenyl Phenyl Ether	ND	4.0	2	07/18/2020 18:06	
Chrysene	ND	0.040	2	07/18/2020 18:06	
Dibenzo (a,h) anthracene	ND	0.040	2	07/18/2020 18:06	
Dibenzofuran	ND	4.0	2	07/18/2020 18:06	
Di-n-butyl Phthalate	ND	0.21	2	07/18/2020 18:06	
1,2-Dichlorobenzene	ND	4.0	2	07/18/2020 18:06	
1,3-Dichlorobenzene	ND	4.0	2	07/18/2020 18:06	
1,4-Dichlorobenzene	ND	4.0	2	07/18/2020 18:06	
3,3-Dichlorobenzidine	ND	0.040	2	07/18/2020 18:06	
2,4-Dichlorophenol	ND	0.021	2	07/18/2020 18:06	
Diethyl Phthalate	ND	0.21	2	07/18/2020 18:06	
2,4-Dimethylphenol	ND	4.0	2	07/18/2020 18:06	
Dimethyl Phthalate	ND	0.040	2	07/18/2020 18:06	
4,6-Dinitro-2-methylphenol	ND	20	2	07/18/2020 18:06	

(Cont.)



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-1	2007558-015B	Soil	07/10/2020 11:20	GC21 07182021.D	201664
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	4.0	2	07/18/2020 18:06	
2,4-Dinitrotoluene	ND	0.21	2	07/18/2020 18:06	
2,6-Dinitrotoluene	ND	0.21	2	07/18/2020 18:06	
Di-n-octyl Phthalate	ND	0.21	2	07/18/2020 18:06	
1,2-Diphenylhydrazine	ND	4.0	2	07/18/2020 18:06	
Fluoranthene	ND	0.040	2	07/18/2020 18:06	
Fluorene	ND	0.040	2	07/18/2020 18:06	
Hexachlorobenzene	ND	0.040	2	07/18/2020 18:06	
Hexachlorobutadiene	ND	0.021	2	07/18/2020 18:06	
Hexachlorocyclopentadiene	ND	32	2	07/18/2020 18:06	
Hexachloroethane	ND	0.21	2	07/18/2020 18:06	
Indeno (1,2,3-cd) pyrene	ND	0.21	2	07/18/2020 18:06	
Isophorone	ND	4.0	2	07/18/2020 18:06	
1-Methylnaphthalene	ND	0.021	2	07/18/2020 18:06	
2-Methylnaphthalene	ND	0.021	2	07/18/2020 18:06	
2-Methylphenol (o-Cresol)	ND	4.0	2	07/18/2020 18:06	
3 & 4-Methylphenol (m,p-Cresol)	ND	4.0	2	07/18/2020 18:06	
Naphthalene	ND	0.021	2	07/18/2020 18:06	
2-Nitroaniline	ND	20	2	07/18/2020 18:06	
3-Nitroaniline	ND	20	2	07/18/2020 18:06	
4-Nitroaniline	ND	20	2	07/18/2020 18:06	
Nitrobenzene	ND	4.0	2	07/18/2020 18:06	
2-Nitrophenol	ND	20	2	07/18/2020 18:06	
4-Nitrophenol	ND	20	2	07/18/2020 18:06	
N-Nitrosodiphenylamine	ND	4.0	2	07/18/2020 18:06	
N-Nitrosodi-n-propylamine	ND	4.0	2	07/18/2020 18:06	
Pentachlorophenol	ND	1.0	2	07/18/2020 18:06	
Phenanthrene	ND	0.080	2	07/18/2020 18:06	
Phenol	ND	0.80	2	07/18/2020 18:06	
Pyrene	ND	0.040	2	07/18/2020 18:06	
Pyridine	ND	4.0	2	07/18/2020 18:06	
1,2,4-Trichlorobenzene	ND	4.0	2	07/18/2020 18:06	
2,4,5-Trichlorophenol	ND	0.040	2	07/18/2020 18:06	
2,4,6-Trichlorophenol	ND	0.040	2	07/18/2020 18:06	

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.

Date Received: 07/10/2020 18:00

Date Prepared: 07/13/2020

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

Extraction Method: SW3550B

Analytical Method: SW8270C

Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-1	2007558-015B	Soil	07/10/2020 11:20	GC21 07182021.D	201664

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
2-Fluorophenol	90		60-130	07/18/2020 18:06
Phenol-d5	80		50-130	07/18/2020 18:06
Nitrobenzene-d5	74		60-130	07/18/2020 18:06
2-Fluorobiphenyl	88		60-130	07/18/2020 18:06
2,4,6-Tribromophenol	31	S	50-130	07/18/2020 18:06
4-Terphenyl-d14	86		50-130	07/18/2020 18:06

Analyst(s): HD

Analytical Comments: c1,a3

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-5	2007558-017B	Soil	07/10/2020 11:20	GC21 07182022.D	201664
Analytes	Result	RL	DF	Date Analyzed	
Acenaphthene	ND	0.0013	1	07/18/2020 18:33	
Acenaphthylene	ND	0.0013	1	07/18/2020 18:33	
Acetochlor	ND	0.25	1	07/18/2020 18:33	
Anthracene	ND	0.0013	1	07/18/2020 18:33	
Benzidine	ND	1.2	1	07/18/2020 18:33	
Benzo (a) anthracene	ND	0.013	1	07/18/2020 18:33	
Benzo (a) pyrene	ND	0.0025	1	07/18/2020 18:33	
Benzo (b) fluoranthene	ND	0.0025	1	07/18/2020 18:33	
Benzo (g,h,i) perylene	ND	0.0025	1	07/18/2020 18:33	
Benzo (k) fluoranthene	ND	0.0025	1	07/18/2020 18:33	
Benzyl Alcohol	ND	1.2	1	07/18/2020 18:33	
1,1-Biphenyl	ND	0.013	1	07/18/2020 18:33	
Bis (2-chloroethoxy) Methane	ND	0.25	1	07/18/2020 18:33	
Bis (2-chloroethyl) Ether	ND	0.0025	1	07/18/2020 18:33	
Bis (2-chloroisopropyl) Ether	ND	0.013	1	07/18/2020 18:33	
Bis (2-ethylhexyl) Adipate	ND	0.25	1	07/18/2020 18:33	
Bis (2-ethylhexyl) Phthalate	ND	0.025	1	07/18/2020 18:33	
4-Bromophenyl Phenyl Ether	ND	0.25	1	07/18/2020 18:33	
Butylbenzyl Phthalate	ND	0.025	1	07/18/2020 18:33	
4-Chloroaniline	ND	0.0013	1	07/18/2020 18:33	
4-Chloro-3-methylphenol	ND	0.25	1	07/18/2020 18:33	
2-Chloronaphthalene	ND	0.25	1	07/18/2020 18:33	
2-Chlorophenol	ND	0.013	1	07/18/2020 18:33	
4-Chlorophenyl Phenyl Ether	ND	0.25	1	07/18/2020 18:33	
Chrysene	ND	0.0025	1	07/18/2020 18:33	
Dibenzo (a,h) anthracene	ND	0.0025	1	07/18/2020 18:33	
Dibenzofuran	ND	0.25	1	07/18/2020 18:33	
Di-n-butyl Phthalate	ND	0.013	1	07/18/2020 18:33	
1,2-Dichlorobenzene	ND	0.25	1	07/18/2020 18:33	
1,3-Dichlorobenzene	ND	0.25	1	07/18/2020 18:33	
1,4-Dichlorobenzene	ND	0.25	1	07/18/2020 18:33	
3,3-Dichlorobenzidine	ND	0.0025	1	07/18/2020 18:33	
2,4-Dichlorophenol	ND	0.0013	1	07/18/2020 18:33	
Diethyl Phthalate	ND	0.013	1	07/18/2020 18:33	
2,4-Dimethylphenol	ND	0.25	1	07/18/2020 18:33	
Dimethyl Phthalate	ND	0.0025	1	07/18/2020 18:33	
4,6-Dinitro-2-methylphenol	ND	1.2	1	07/18/2020 18:33	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-5	2007558-017B	Soil	07/10/2020 11:20	GC21 07182022.D	201664
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	0.25	1	07/18/2020 18:33	
2,4-Dinitrotoluene	ND	0.013	1	07/18/2020 18:33	
2,6-Dinitrotoluene	ND	0.013	1	07/18/2020 18:33	
Di-n-octyl Phthalate	ND	0.013	1	07/18/2020 18:33	
1,2-Diphenylhydrazine	ND	0.25	1	07/18/2020 18:33	
Fluoranthene	ND	0.0025	1	07/18/2020 18:33	
Fluorene	ND	0.0025	1	07/18/2020 18:33	
Hexachlorobenzene	ND	0.0025	1	07/18/2020 18:33	
Hexachlorobutadiene	ND	0.0013	1	07/18/2020 18:33	
Hexachlorocyclopentadiene	ND	2.0	1	07/18/2020 18:33	
Hexachloroethane	ND	0.013	1	07/18/2020 18:33	
Indeno (1,2,3-cd) pyrene	ND	0.013	1	07/18/2020 18:33	
Isophorone	ND	0.25	1	07/18/2020 18:33	
1-Methylnaphthalene	ND	0.0013	1	07/18/2020 18:33	
2-Methylnaphthalene	ND	0.0013	1	07/18/2020 18:33	
2-Methylphenol (o-Cresol)	ND	0.25	1	07/18/2020 18:33	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	07/18/2020 18:33	
Naphthalene	ND	0.0013	1	07/18/2020 18:33	
2-Nitroaniline	ND	1.2	1	07/18/2020 18:33	
3-Nitroaniline	ND	1.2	1	07/18/2020 18:33	
4-Nitroaniline	ND	1.2	1	07/18/2020 18:33	
Nitrobenzene	ND	0.25	1	07/18/2020 18:33	
2-Nitrophenol	ND	1.2	1	07/18/2020 18:33	
4-Nitrophenol	ND	1.2	1	07/18/2020 18:33	
N-Nitrosodiphenylamine	ND	0.25	1	07/18/2020 18:33	
N-Nitrosodi-n-propylamine	ND	0.25	1	07/18/2020 18:33	
Pentachlorophenol	ND	0.062	1	07/18/2020 18:33	
Phenanthrene	ND	0.0050	1	07/18/2020 18:33	
Phenol	ND	0.050	1	07/18/2020 18:33	
Pyrene	ND	0.0025	1	07/18/2020 18:33	
Pyridine	ND	0.25	1	07/18/2020 18:33	
1,2,4-Trichlorobenzene	ND	0.25	1	07/18/2020 18:33	
2,4,5-Trichlorophenol	ND	0.0025	1	07/18/2020 18:33	
2,4,6-Trichlorophenol	ND	0.0025	1	07/18/2020 18:33	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-5	2007558-017B	Soil	07/10/2020 11:20	GC21 07182022.D	201664

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
2-Fluorophenol	81		60-130	07/18/2020 18:33
Phenol-d5	78		50-130	07/18/2020 18:33
Nitrobenzene-d5	68		60-130	07/18/2020 18:33
2-Fluorobiphenyl	74		60-130	07/18/2020 18:33
2,4,6-Tribromophenol	25	S	50-130	07/18/2020 18:33
4-Terphenyl-d14	77		50-130	07/18/2020 18:33

Analyst(s): HD

Analytical Comments: c2



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1	2007558-003E	Water	07/10/2020 13:50	GC21 07182015.D	201688
Analytes	Result	RL	DF	Date Analyzed	
Acenaphthene	ND	0.017	2	07/18/2020 15:22	
Acenaphthylene	ND	0.017	2	07/18/2020 15:22	
Acetochlor	ND	3.5	2	07/18/2020 15:22	
Anthracene	ND	0.035	2	07/18/2020 15:22	
Benzidine	ND	17	2	07/18/2020 15:22	
Benzo (a) anthracene	ND	0.17	2	07/18/2020 15:22	
Benzo (a) pyrene	ND	0.035	2	07/18/2020 15:22	
Benzo (b) fluoranthene	ND	0.069	2	07/18/2020 15:22	
Benzo (g,h,i) perylene	ND	0.069	2	07/18/2020 15:22	
Benzo (k) fluoranthene	ND	0.035	2	07/18/2020 15:22	
Benzoic Acid	ND	17	2	07/18/2020 15:22	
Benzyl Alcohol	ND	17	2	07/18/2020 15:22	
1,1-Biphenyl	ND	0.17	2	07/18/2020 15:22	
Bis (2-chloroethoxy) Methane	ND	3.5	2	07/18/2020 15:22	
Bis (2-chloroethyl) Ether	ND	0.035	2	07/18/2020 15:22	
Bis (2-chloroisopropyl) Ether	ND	0.17	2	07/18/2020 15:22	
Bis (2-ethylhexyl) Adipate	ND	3.5	2	07/18/2020 15:22	
Bis (2-ethylhexyl) Phthalate	ND	0.69	2	07/18/2020 15:22	
4-Bromophenyl Phenyl Ether	ND	3.5	2	07/18/2020 15:22	
Butylbenzyl Phthalate	ND	0.17	2	07/18/2020 15:22	
4-Chloroaniline	ND	0.017	2	07/18/2020 15:22	
4-Chloro-3-methylphenol	ND	3.5	2	07/18/2020 15:22	
2-Chloronaphthalene	ND	3.5	2	07/18/2020 15:22	
2-Chlorophenol	ND	0.17	2	07/18/2020 15:22	
4-Chlorophenyl Phenyl Ether	ND	3.5	2	07/18/2020 15:22	
Chrysene	ND	0.035	2	07/18/2020 15:22	
Dibenzo (a,h) anthracene	ND	0.035	2	07/18/2020 15:22	
Dibenzofuran	ND	3.5	2	07/18/2020 15:22	
Di-n-butyl Phthalate	ND	0.17	2	07/18/2020 15:22	
1,2-Dichlorobenzene	ND	3.5	2	07/18/2020 15:22	
1,3-Dichlorobenzene	ND	3.5	2	07/18/2020 15:22	
1,4-Dichlorobenzene	ND	3.5	2	07/18/2020 15:22	
3,3-Dichlorobenzidine	ND	0.069	2	07/18/2020 15:22	
2,4-Dichlorophenol	ND	0.035	2	07/18/2020 15:22	
Diethyl Phthalate	ND	0.17	2	07/18/2020 15:22	
2,4-Dimethylphenol	ND	3.5	2	07/18/2020 15:22	
Dimethyl Phthalate	ND	0.035	2	07/18/2020 15:22	

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1	2007558-003E	Water	07/10/2020 13:50	GC21 07182015.D	201688
Analytes	Result	RL	DF	Date Analyzed	
4,6-Dinitro-2-methylphenol	ND	17	2	07/18/2020 15:22	
2,4-Dinitrophenol	ND	6.9	2	07/18/2020 15:22	
2,4-Dinitrotoluene	ND	0.17	2	07/18/2020 15:22	
2,6-Dichlorophenol	ND	0.17	2	07/18/2020 15:22	
2,6-Dinitrotoluene	ND	0.17	2	07/18/2020 15:22	
Di-n-octyl Phthalate	ND	0.17	2	07/18/2020 15:22	
1,2-Diphenylhydrazine	ND	3.5	2	07/18/2020 15:22	
Fluoranthene	ND	0.035	2	07/18/2020 15:22	
Fluorene	ND	0.035	2	07/18/2020 15:22	
Hexachlorobenzene	ND	0.017	2	07/18/2020 15:22	
Hexachlorobutadiene	ND	0.035	2	07/18/2020 15:22	
Hexachlorocyclopentadiene	ND	17	2	07/18/2020 15:22	
Hexachloroethane	ND	0.17	2	07/18/2020 15:22	
Indeno (1,2,3-cd) pyrene	ND	0.069	2	07/18/2020 15:22	
Isophorone	ND	3.5	2	07/18/2020 15:22	
2-Methylnaphthalene	ND	0.035	2	07/18/2020 15:22	
2-Methylphenol (o-Cresol)	ND	3.5	2	07/18/2020 15:22	
3 & 4-Methylphenol (m,p-Cresol)	ND	3.5	2	07/18/2020 15:22	
Naphthalene	ND	0.17	2	07/18/2020 15:22	
2-Nitroaniline	ND	17	2	07/18/2020 15:22	
3-Nitroaniline	ND	17	2	07/18/2020 15:22	
4-Nitroaniline	ND	17	2	07/18/2020 15:22	
Nitrobenzene	ND	3.5	2	07/18/2020 15:22	
2-Nitrophenol	ND	17	2	07/18/2020 15:22	
4-Nitrophenol	ND	17	2	07/18/2020 15:22	
N-Nitrosodiphenylamine	ND	3.5	2	07/18/2020 15:22	
N-Nitrosodi-n-propylamine	ND	3.5	2	07/18/2020 15:22	
Pentachlorophenol	ND	0.86	2	07/18/2020 15:22	
Phenanthrene	ND	0.069	2	07/18/2020 15:22	
Phenol	ND	0.69	2	07/18/2020 15:22	
Pyrene	ND	0.035	2	07/18/2020 15:22	
Pyridine	ND	3.5	2	07/18/2020 15:22	
1,2,4-Trichlorobenzene	ND	3.5	2	07/18/2020 15:22	
2,4,5-Trichlorophenol	ND	0.035	2	07/18/2020 15:22	
2,4,6-Trichlorophenol	ND	0.035	2	07/18/2020 15:22	
1-Methylnaphthalene	ND	0.017	2	07/18/2020 15:22	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1	2007558-003E	Water	07/10/2020 13:50	GC21 07182015.D	201688

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
2-Fluorophenol	44	20-130		07/18/2020 15:22
Phenol-d5	35	20-130		07/18/2020 15:22
Nitrobenzene-d5	57	30-130		07/18/2020 15:22
2-Fluorobiphenyl	64	40-130		07/18/2020 15:22
2,4,6-Tribromophenol	68	40-130		07/18/2020 15:22
4-Terphenyl-d14	88	40-130		07/18/2020 15:22

Analyst(s): HD

Analytical Comments: a4,a3

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP7	2007558-018D	Water	07/10/2020 14:30	GC21 07182019.D	201688
Analytes	Result	RL	DF	Date Analyzed	
Acenaphthene	ND	0.0061	1	07/18/2020 17:11	
Acenaphthylene	ND	0.0061	1	07/18/2020 17:11	
Acetochlor	ND	1.2	1	07/18/2020 17:11	
Anthracene	ND	0.012	1	07/18/2020 17:11	
Benzidine	ND	6.1	1	07/18/2020 17:11	
Benzo (a) anthracene	ND	0.061	1	07/18/2020 17:11	
Benzo (a) pyrene	ND	0.012	1	07/18/2020 17:11	
Benzo (b) fluoranthene	ND	0.025	1	07/18/2020 17:11	
Benzo (g,h,i) perylene	ND	0.025	1	07/18/2020 17:11	
Benzo (k) fluoranthene	ND	0.012	1	07/18/2020 17:11	
Benzoic Acid	ND	6.1	1	07/18/2020 17:11	
Benzyl Alcohol	ND	6.1	1	07/18/2020 17:11	
1,1-Biphenyl	ND	0.061	1	07/18/2020 17:11	
Bis (2-chloroethoxy) Methane	ND	1.2	1	07/18/2020 17:11	
Bis (2-chloroethyl) Ether	ND	0.012	1	07/18/2020 17:11	
Bis (2-chloroisopropyl) Ether	ND	0.061	1	07/18/2020 17:11	
Bis (2-ethylhexyl) Adipate	ND	1.2	1	07/18/2020 17:11	
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	07/18/2020 17:11	
4-Bromophenyl Phenyl Ether	ND	1.2	1	07/18/2020 17:11	
Butylbenzyl Phthalate	ND	0.061	1	07/18/2020 17:11	
4-Chloroaniline	ND	0.0061	1	07/18/2020 17:11	
4-Chloro-3-methylphenol	ND	1.2	1	07/18/2020 17:11	
2-Chloronaphthalene	ND	1.2	1	07/18/2020 17:11	
2-Chlorophenol	ND	0.061	1	07/18/2020 17:11	
4-Chlorophenyl Phenyl Ether	ND	1.2	1	07/18/2020 17:11	
Chrysene	ND	0.012	1	07/18/2020 17:11	
Dibenzo (a,h) anthracene	ND	0.012	1	07/18/2020 17:11	
Dibenzofuran	ND	1.2	1	07/18/2020 17:11	
Di-n-butyl Phthalate	0.11	0.061	1	07/18/2020 17:11	
1,2-Dichlorobenzene	ND	1.2	1	07/18/2020 17:11	
1,3-Dichlorobenzene	ND	1.2	1	07/18/2020 17:11	
1,4-Dichlorobenzene	ND	1.2	1	07/18/2020 17:11	
3,3-Dichlorobenzidine	ND	0.025	1	07/18/2020 17:11	
2,4-Dichlorophenol	0.025	0.012	1	07/18/2020 17:11	
Diethyl Phthalate	0.076	0.061	1	07/18/2020 17:11	
2,4-Dimethylphenol	ND	1.2	1	07/18/2020 17:11	
Dimethyl Phthalate	ND	0.012	1	07/18/2020 17:11	

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP7	2007558-018D	Water	07/10/2020 14:30	GC21 07182019.D	201688

Analytes	Result	RL	DF	Date Analyzed
4,6-Dinitro-2-methylphenol	ND	6.1	1	07/18/2020 17:11
2,4-Dinitrophenol	ND	2.5	1	07/18/2020 17:11
2,4-Dinitrotoluene	ND	0.061	1	07/18/2020 17:11
2,6-Dichlorophenol	ND	0.061	1	07/18/2020 17:11
2,6-Dinitrotoluene	ND	0.061	1	07/18/2020 17:11
Di-n-octyl Phthalate	ND	0.061	1	07/18/2020 17:11
1,2-Diphenylhydrazine	ND	1.2	1	07/18/2020 17:11
Fluoranthene	ND	0.012	1	07/18/2020 17:11
Fluorene	ND	0.012	1	07/18/2020 17:11
Hexachlorobenzene	ND	0.0061	1	07/18/2020 17:11
Hexachlorobutadiene	ND	0.012	1	07/18/2020 17:11
Hexachlorocyclopentadiene	ND	6.1	1	07/18/2020 17:11
Hexachloroethane	ND	0.061	1	07/18/2020 17:11
Indeno (1,2,3-cd) pyrene	ND	0.025	1	07/18/2020 17:11
Isophorone	ND	1.2	1	07/18/2020 17:11
2-Methylnaphthalene	ND	0.012	1	07/18/2020 17:11
2-Methylphenol (o-Cresol)	ND	1.2	1	07/18/2020 17:11
3 & 4-Methylphenol (m,p-Cresol)	ND	1.2	1	07/18/2020 17:11
Naphthalene	ND	0.061	1	07/18/2020 17:11
2-Nitroaniline	ND	6.1	1	07/18/2020 17:11
3-Nitroaniline	ND	6.1	1	07/18/2020 17:11
4-Nitroaniline	ND	6.1	1	07/18/2020 17:11
Nitrobenzene	ND	1.2	1	07/18/2020 17:11
2-Nitrophenol	ND	6.1	1	07/18/2020 17:11
4-Nitrophenol	ND	6.1	1	07/18/2020 17:11
N-Nitrosodiphenylamine	ND	1.2	1	07/18/2020 17:11
N-Nitrosodi-n-propylamine	ND	1.2	1	07/18/2020 17:11
Pentachlorophenol	ND	0.31	1	07/18/2020 17:11
Phenanthrene	ND	0.025	1	07/18/2020 17:11
Phenol	ND	0.25	1	07/18/2020 17:11
Pyrene	ND	0.012	1	07/18/2020 17:11
Pyridine	ND	1.2	1	07/18/2020 17:11
1,2,4-Trichlorobenzene	ND	1.2	1	07/18/2020 17:11
2,4,5-Trichlorophenol	ND	0.012	1	07/18/2020 17:11
2,4,6-Trichlorophenol	ND	0.012	1	07/18/2020 17:11
1-Methylnaphthalene	ND	0.0061	1	07/18/2020 17:11

(Cont.)



McC Campbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP7	2007558-018D	Water	07/10/2020 14:30	GC21 07182019.D	201688

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	33	20-130		07/18/2020 17:11
Phenol-d5	24	20-130		07/18/2020 17:11
Nitrobenzene-d5	60	30-130		07/18/2020 17:11
2-Fluorobiphenyl	64	40-130		07/18/2020 17:11
2,4,6-Tribromophenol	66	40-130		07/18/2020 17:11
4-Terphenyl-d14	71	40-130		07/18/2020 17:11

Analyst(s): HD



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L

Dissolved CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1	2007558-003D	Water	07/10/2020 13:50	ICP-MS2 085SMPL.D	201678
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Antimony	ND	F	5.0	10	07/15/2020 22:33
Arsenic	ND	F	5.0	10	07/15/2020 22:33
Barium	82	F	50	10	07/15/2020 22:33
Beryllium	ND	F	5.0	10	07/15/2020 22:33
Cadmium	ND	F	2.5	10	07/15/2020 22:33
Chromium	ND	F	5.0	10	07/15/2020 22:33
Cobalt	ND	F	5.0	10	07/15/2020 22:33
Copper	ND	F	5.0	10	07/15/2020 22:33
Lead	ND	F	5.0	10	07/15/2020 22:33
Mercury	ND	F	0.50	10	07/15/2020 22:33
Molybdenum	73	F	5.0	10	07/15/2020 22:33
Nickel	5.9	F	5.0	10	07/15/2020 22:33
Selenium	ND	F	5.0	10	07/15/2020 22:33
Silver	ND	F	1.9	10	07/15/2020 22:33
Thallium	ND	F	5.0	10	07/15/2020 22:33
Vanadium	26	F	5.0	10	07/15/2020 22:33
Zinc	ND	F	150	10	07/15/2020 22:33

Analyst(s): WV

Analytical Comments: a1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L

Dissolved CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP7	2007558-018E	Water	07/10/2020 14:30	ICP-MS2 097SMPL.D	201678

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Antimony	ND	F	5.0	10	07/15/2020 23:47
Arsenic	7.7	F	5.0	10	07/15/2020 23:47
Barium	ND	F	50	10	07/15/2020 23:47
Beryllium	ND	F	5.0	10	07/15/2020 23:47
Cadmium	ND	F	2.5	10	07/15/2020 23:47
Chromium	ND	F	5.0	10	07/15/2020 23:47
Cobalt	ND	F	5.0	10	07/15/2020 23:47
Copper	ND	F	5.0	10	07/15/2020 23:47
Lead	ND	F	5.0	10	07/15/2020 23:47
Mercury	ND	F	0.50	10	07/15/2020 23:47
Molybdenum	87	F	5.0	10	07/15/2020 23:47
Nickel	ND	F	5.0	10	07/15/2020 23:47
Selenium	ND	F	5.0	10	07/15/2020 23:47
Silver	ND	F	1.9	10	07/15/2020 23:47
Thallium	ND	F	5.0	10	07/15/2020 23:47
Vanadium	36	F	5.0	10	07/15/2020 23:47
Zinc	ND	F	150	10	07/15/2020 23:47

Analyst(s): WV

Analytical Comments: a1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L

Dissolved CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1a	2007558-020C	Water	07/10/2020 13:50	ICP-MS2 094SMPL.D	201678
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Antimony	ND	F	5.0	10	07/15/2020 23:28
Arsenic	ND	F	5.0	10	07/15/2020 23:28
Barium	73	F	50	10	07/15/2020 23:28
Beryllium	ND	F	5.0	10	07/15/2020 23:28
Cadmium	ND	F	2.5	10	07/15/2020 23:28
Chromium	ND	F	5.0	10	07/15/2020 23:28
Cobalt	ND	F	5.0	10	07/15/2020 23:28
Copper	ND	F	5.0	10	07/15/2020 23:28
Lead	ND	F	5.0	10	07/15/2020 23:28
Mercury	ND	F	0.50	10	07/15/2020 23:28
Molybdenum	60	F	5.0	10	07/15/2020 23:28
Nickel	5.4	F	5.0	10	07/15/2020 23:28
Selenium	ND	F	5.0	10	07/15/2020 23:28
Silver	ND	F	1.9	10	07/15/2020 23:28
Thallium	ND	F	5.0	10	07/15/2020 23:28
Vanadium	19	F	5.0	10	07/15/2020 23:28
Zinc	ND	F	150	10	07/15/2020 23:28

Analyst(s): WV

Analytical Comments: a1



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-2	2007558-001A	Soil	07/10/2020 09:20	ICP-MS4 1341SMPL.d	201650
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	0.51		0.50	1	07/17/2020 01:05
Arsenic	6.1		0.50	1	07/17/2020 01:05
Barium	120		5.0	1	07/17/2020 01:05
Beryllium	ND		0.50	1	07/17/2020 01:05
Cadmium	ND		0.50	1	07/17/2020 01:05
Chromium	35		0.50	1	07/17/2020 01:05
Cobalt	9.8		0.50	1	07/17/2020 01:05
Copper	70		0.50	1	07/17/2020 01:05
Lead	15		0.50	1	07/17/2020 01:05
Mercury	0.11		0.050	1	07/17/2020 01:05
Molybdenum	0.50		0.50	1	07/17/2020 01:05
Nickel	34		0.50	1	07/17/2020 01:05
Selenium	0.90		0.50	1	07/17/2020 01:05
Silver	ND		0.50	1	07/17/2020 01:05
Thallium	ND		0.50	1	07/17/2020 01:05
Vanadium	53		0.50	1	07/17/2020 01:05
Zinc	59		5.0	1	07/17/2020 01:05
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	109		70-130		07/17/2020 01:05
<u>Analyst(s):</u> JAG					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-5	2007558-002A	Soil	07/10/2020 09:25	ICP-MS4 1342SMPL.d	201650
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	ND		0.50	1	07/17/2020 01:09
Arsenic	5.5		0.50	1	07/17/2020 01:09
Barium	99		5.0	1	07/17/2020 01:09
Beryllium	ND		0.50	1	07/17/2020 01:09
Cadmium	ND		0.50	1	07/17/2020 01:09
Chromium	43		0.50	1	07/17/2020 01:09
Cobalt	9.9		0.50	1	07/17/2020 01:09
Copper	19		0.50	1	07/17/2020 01:09
Lead	4.7		0.50	1	07/17/2020 01:09
Mercury	0.10		0.050	1	07/17/2020 01:09
Molybdenum	1.1		0.50	1	07/17/2020 01:09
Nickel	43		0.50	1	07/17/2020 01:09
Selenium	0.84		0.50	1	07/17/2020 01:09
Silver	ND		0.50	1	07/17/2020 01:09
Thallium	ND		0.50	1	07/17/2020 01:09
Vanadium	54		0.50	1	07/17/2020 01:09
Zinc	49		5.0	1	07/17/2020 01:09
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	108		70-130		07/17/2020 01:09
<u>Analyst(s):</u> JAG					

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	2007558-004A	Soil	07/10/2020 08:45	ICP-MS4 1343SMPL.d	201650
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Antimony	ND		0.50	1	07/17/2020 01:13
Arsenic	5.1		0.50	1	07/17/2020 01:13
Barium	170		5.0	1	07/17/2020 01:13
Beryllium	ND		0.50	1	07/17/2020 01:13
Cadmium	ND		0.50	1	07/17/2020 01:13
Chromium	45		0.50	1	07/17/2020 01:13
Cobalt	10		0.50	1	07/17/2020 01:13
Copper	18		0.50	1	07/17/2020 01:13
Lead	5.0		0.50	1	07/17/2020 01:13
Mercury	ND		0.050	1	07/17/2020 01:13
Molybdenum	ND		0.50	1	07/17/2020 01:13
Nickel	47		0.50	1	07/17/2020 01:13
Selenium	1.0		0.50	1	07/17/2020 01:13
Silver	ND		0.50	1	07/17/2020 01:13
Thallium	ND		0.50	1	07/17/2020 01:13
Vanadium	61		0.50	1	07/17/2020 01:13
Zinc	51		5.0	1	07/17/2020 01:13
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	108		70-130		07/17/2020 01:13
<u>Analyst(s):</u> JAG					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-5	2007558-005A	Soil	07/10/2020 08:47	ICP-MS4 1344SMPL.d	201650
Analytes	Result		RL	DF	Date Analyzed
Antimony	ND		0.50	1	07/17/2020 01:17
Arsenic	4.3		0.50	1	07/17/2020 01:17
Barium	83		5.0	1	07/17/2020 01:17
Beryllium	ND		0.50	1	07/17/2020 01:17
Cadmium	ND		0.50	1	07/17/2020 01:17
Chromium	39		0.50	1	07/17/2020 01:17
Cobalt	8.5		0.50	1	07/17/2020 01:17
Copper	16		0.50	1	07/17/2020 01:17
Lead	4.0		0.50	1	07/17/2020 01:17
Mercury	ND		0.050	1	07/17/2020 01:17
Molybdenum	ND		0.50	1	07/17/2020 01:17
Nickel	42		0.50	1	07/17/2020 01:17
Selenium	0.85		0.50	1	07/17/2020 01:17
Silver	ND		0.50	1	07/17/2020 01:17
Thallium	ND		0.50	1	07/17/2020 01:17
Vanadium	52		0.50	1	07/17/2020 01:17
Zinc	45		5.0	1	07/17/2020 01:17
Surrogates	REC (%)		Limits		
Terbium	105		70-130		07/17/2020 01:17
Analyst(s): JAG					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-2	2007558-006A	Soil	07/10/2020 11:55	ICP-MS4 1345SMPL.d	201650
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	ND		0.50	1	07/17/2020 01:20
Arsenic	3.3		0.50	1	07/17/2020 01:20
Barium	89		5.0	1	07/17/2020 01:20
Beryllium	ND		0.50	1	07/17/2020 01:20
Cadmium	ND		0.50	1	07/17/2020 01:20
Chromium	43		0.50	1	07/17/2020 01:20
Cobalt	22		0.50	1	07/17/2020 01:20
Copper	270		0.50	1	07/17/2020 01:20
Lead	5.6		0.50	1	07/17/2020 01:20
Mercury	0.29		0.050	1	07/17/2020 01:20
Molybdenum	0.59		0.50	1	07/17/2020 01:20
Nickel	38		0.50	1	07/17/2020 01:20
Selenium	1.4		0.50	1	07/17/2020 01:20
Silver	ND		0.50	1	07/17/2020 01:20
Thallium	ND		0.50	1	07/17/2020 01:20
Vanadium	70		0.50	1	07/17/2020 01:20
Zinc	45		5.0	1	07/17/2020 01:20
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	104		70-130		07/17/2020 01:20
Analyst(s): JAG					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-5	2007558-007A	Soil	07/10/2020 11:55	ICP-MS4 1349SMPL.d	201650
Analytes	Result		RL	DF	Date Analyzed
Antimony	ND		0.50	1	07/17/2020 01:35
Arsenic	7.0		0.50	1	07/17/2020 01:35
Barium	160		5.0	1	07/17/2020 01:35
Beryllium	ND		0.50	1	07/17/2020 01:35
Cadmium	ND		0.50	1	07/17/2020 01:35
Chromium	39		0.50	1	07/17/2020 01:35
Cobalt	9.2		0.50	1	07/17/2020 01:35
Copper	25		0.50	1	07/17/2020 01:35
Lead	11		0.50	1	07/17/2020 01:35
Mercury	0.053		0.050	1	07/17/2020 01:35
Molybdenum	ND		0.50	1	07/17/2020 01:35
Nickel	40		0.50	1	07/17/2020 01:35
Selenium	1.0		0.50	1	07/17/2020 01:35
Silver	ND		0.50	1	07/17/2020 01:35
Thallium	ND		0.50	1	07/17/2020 01:35
Vanadium	57		0.50	1	07/17/2020 01:35
Zinc	55		5.0	1	07/17/2020 01:35
Surrogates	REC (%)		Limits		
Terbium	105		70-130		07/17/2020 01:35
Analyst(s): JAG					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-1	2007558-008A	Soil	07/10/2020 11:51	ICP-MS4 1350SMPL.d	201650
<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>		<u>Date Analyzed</u>
Antimony	ND		0.50 1		07/17/2020 01:39
Arsenic	3.9		0.50 1		07/17/2020 01:39
Barium	260		5.0 1		07/17/2020 01:39
Beryllium	ND		0.50 1		07/17/2020 01:39
Cadmium	ND		0.50 1		07/17/2020 01:39
Chromium	25		0.50 1		07/17/2020 01:39
Cobalt	9.2		0.50 1		07/17/2020 01:39
Copper	250		0.50 1		07/17/2020 01:39
Lead	23		0.50 1		07/17/2020 01:39
Mercury	0.088		0.050 1		07/17/2020 01:39
Molybdenum	0.63		0.50 1		07/17/2020 01:39
Nickel	23		0.50 1		07/17/2020 01:39
Selenium	0.98		0.50 1		07/17/2020 01:39
Silver	ND		0.50 1		07/17/2020 01:39
Thallium	ND		0.50 1		07/17/2020 01:39
Vanadium	70		0.50 1		07/17/2020 01:39
Zinc	120		5.0 1		07/17/2020 01:39
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	103		70-130		07/17/2020 01:39
Analyst(s): JAG					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-5	2007558-010A	Soil	07/10/2020 11:51	ICP-MS4 1351SMPL.d	201650
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	ND		0.50	1	07/17/2020 01:43
Arsenic	4.3		0.50	1	07/17/2020 01:43
Barium	110		5.0	1	07/17/2020 01:43
Beryllium	ND		0.50	1	07/17/2020 01:43
Cadmium	ND		0.50	1	07/17/2020 01:43
Chromium	34		0.50	1	07/17/2020 01:43
Cobalt	8.5		0.50	1	07/17/2020 01:43
Copper	16		0.50	1	07/17/2020 01:43
Lead	4.1		0.50	1	07/17/2020 01:43
Mercury	ND		0.050	1	07/17/2020 01:43
Molybdenum	ND		0.50	1	07/17/2020 01:43
Nickel	38		0.50	1	07/17/2020 01:43
Selenium	0.75		0.50	1	07/17/2020 01:43
Silver	ND		0.50	1	07/17/2020 01:43
Thallium	ND		0.50	1	07/17/2020 01:43
Vanadium	53		0.50	1	07/17/2020 01:43
Zinc	43		5.0	1	07/17/2020 01:43
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	105		70-130		07/17/2020 01:43
<u>Analyst(s):</u> JAG					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-2	2007558-011B	Soil	07/10/2020 10:55	ICP-MS4 1352SMPL.d	201650
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Antimony	ND		0.50	1	07/17/2020 01:47
Arsenic	4.2		0.50	1	07/17/2020 01:47
Barium	80		5.0	1	07/17/2020 01:47
Beryllium	ND		0.50	1	07/17/2020 01:47
Cadmium	ND		0.50	1	07/17/2020 01:47
Chromium	35		0.50	1	07/17/2020 01:47
Cobalt	8.8		0.50	1	07/17/2020 01:47
Copper	17		0.50	1	07/17/2020 01:47
Lead	4.2		0.50	1	07/17/2020 01:47
Mercury	0.12		0.050	1	07/17/2020 01:47
Molybdenum	ND		0.50	1	07/17/2020 01:47
Nickel	39		0.50	1	07/17/2020 01:47
Selenium	0.91		0.50	1	07/17/2020 01:47
Silver	ND		0.50	1	07/17/2020 01:47
Thallium	ND		0.50	1	07/17/2020 01:47
Vanadium	55		0.50	1	07/17/2020 01:47
Zinc	46		5.0	1	07/17/2020 01:47
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	105		70-130		07/17/2020 01:47
<u>Analyst(s):</u> JAG					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-5	2007558-012B	Soil	07/10/2020 10:55	ICP-MS4 1353SMPL.d	201650
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	ND		0.50	1	07/17/2020 01:50
Arsenic	5.6		0.50	1	07/17/2020 01:50
Barium	140		5.0	1	07/17/2020 01:50
Beryllium	ND		0.50	1	07/17/2020 01:50
Cadmium	ND		0.50	1	07/17/2020 01:50
Chromium	37		0.50	1	07/17/2020 01:50
Cobalt	8.6		0.50	1	07/17/2020 01:50
Copper	32		0.50	1	07/17/2020 01:50
Lead	36		0.50	1	07/17/2020 01:50
Mercury	ND		0.050	1	07/17/2020 01:50
Molybdenum	ND		0.50	1	07/17/2020 01:50
Nickel	38		0.50	1	07/17/2020 01:50
Selenium	0.92		0.50	1	07/17/2020 01:50
Silver	ND		0.50	1	07/17/2020 01:50
Thallium	ND		0.50	1	07/17/2020 01:50
Vanadium	53		0.50	1	07/17/2020 01:50
Zinc	56		5.0	1	07/17/2020 01:50
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	103		70-130		07/17/2020 01:50
<u>Analyst(s):</u> JAG					

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-2	2007558-013A	Soil	07/10/2020 11:45	ICP-MS5 176SMPL.d	201650
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	ND		0.50	1	07/14/2020 13:45
Arsenic	4.5		0.50	1	07/14/2020 13:45
Barium	74		5.0	1	07/14/2020 13:45
Beryllium	ND		0.50	1	07/14/2020 13:45
Cadmium	1.0	B	0.50	1	07/14/2020 13:45
Chromium	29		0.50	1	07/14/2020 13:45
Cobalt	7.0		0.50	1	07/14/2020 13:45
Copper	540		5.0	10	07/21/2020 13:53
Lead	3.7		0.50	1	07/14/2020 13:45
Mercury	0.098		0.050	1	07/14/2020 13:45
Molybdenum	ND		0.50	1	07/14/2020 13:45
Nickel	19		0.50	1	07/14/2020 13:45
Selenium	ND		0.50	1	07/14/2020 13:45
Silver	ND		0.50	1	07/14/2020 13:45
Thallium	ND		0.50	1	07/14/2020 13:45
Vanadium	49		0.50	1	07/14/2020 13:45
Zinc	75		5.0	1	07/14/2020 13:45
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	100		70-130		07/14/2020 13:45
<u>Analyst(s):</u> MIG, WV					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-5	2007558-014A	Soil	07/10/2020 11:45	ICP-MS5 177SMPL.d	201650
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Antimony	ND		0.50	1	07/14/2020 13:49
Arsenic	4.2		0.50	1	07/14/2020 13:49
Barium	110		5.0	1	07/14/2020 13:49
Beryllium	ND		0.50	1	07/14/2020 13:49
Cadmium	0.85	B	0.50	1	07/14/2020 13:49
Chromium	35		0.50	1	07/14/2020 13:49
Cobalt	9.2		0.50	1	07/14/2020 13:49
Copper	56		0.50	1	07/14/2020 13:49
Lead	4.4		0.50	1	07/14/2020 13:49
Mercury	ND		0.050	1	07/14/2020 13:49
Molybdenum	ND		0.50	1	07/14/2020 13:49
Nickel	42		0.50	1	07/14/2020 13:49
Selenium	ND		0.50	1	07/14/2020 13:49
Silver	ND		0.50	1	07/14/2020 13:49
Thallium	ND		0.50	1	07/14/2020 13:49
Vanadium	56		0.50	1	07/14/2020 13:49
Zinc	92		5.0	1	07/14/2020 13:49
Surrogates	REC (%)	Limits			
Terbium	107	70-130			07/14/2020 13:49
Analyst(s): WV					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-1	2007558-015B	Soil	07/10/2020 11:20	ICP-MS5 178SMPL.d	201650
<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>		<u>Date Analyzed</u>
Antimony	1.2		0.50 1		07/14/2020 13:53
Arsenic	16		0.50 1		07/14/2020 13:53
Barium	130		5.0 1		07/14/2020 13:53
Beryllium	ND		0.50 1		07/14/2020 13:53
Cadmium	ND		0.50 1		07/14/2020 13:53
Chromium	33		0.50 1		07/14/2020 13:53
Cobalt	8.1		0.50 1		07/14/2020 13:53
Copper	41		0.50 1		07/14/2020 13:53
Lead	28		0.50 1		07/14/2020 13:53
Mercury	0.11		0.050 1		07/14/2020 13:53
Molybdenum	0.94		0.50 1		07/14/2020 13:53
Nickel	27		0.50 1		07/14/2020 13:53
Selenium	0.54		0.50 1		07/14/2020 13:53
Silver	ND		0.50 1		07/14/2020 13:53
Thallium	ND		0.50 1		07/14/2020 13:53
Vanadium	66		0.50 1		07/14/2020 13:53
Zinc	64		5.0 1		07/14/2020 13:53
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	100		70-130		07/14/2020 13:53
<u>Analyst(s):</u> WV					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.

Date Received: 07/10/2020 18:00

Date Prepared: 07/13/2020

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

Extraction Method: SW3050B

Analytical Method: SW6020

Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-5	2007558-017B	Soil	07/10/2020 11:20	ICP-MS5 179SMPL.d	201650
Analytes	Result		RL	DF	Date Analyzed
Antimony	ND		0.50	1	07/14/2020 13:56
Arsenic	3.9		0.50	1	07/14/2020 13:56
Barium	99		5.0	1	07/14/2020 13:56
Beryllium	ND		0.50	1	07/14/2020 13:56
Cadmium	ND		0.50	1	07/14/2020 13:56
Chromium	29		0.50	1	07/14/2020 13:56
Cobalt	7.5		0.50	1	07/14/2020 13:56
Copper	13		0.50	1	07/14/2020 13:56
Lead	3.6		0.50	1	07/14/2020 13:56
Mercury	0.14		0.050	1	07/14/2020 13:56
Molybdenum	ND		0.50	1	07/14/2020 13:56
Nickel	33		0.50	1	07/14/2020 13:56
Selenium	ND		0.50	1	07/14/2020 13:56
Silver	ND		0.50	1	07/14/2020 13:56
Thallium	ND		0.50	1	07/14/2020 13:56
Vanadium	51		0.50	1	07/14/2020 13:56
Zinc	36		5.0	1	07/14/2020 13:56
Surrogates	REC (%)		Limits		
Terbium	99		70-130		07/14/2020 13:56
Analyst(s): WV					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2A	2007558-019A	Soil	07/10/2020 08:45	ICP-MS4 1354SMPL.d	201650

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	07/17/2020 01:54
Arsenic	4.6	0.50	1	07/17/2020 01:54
Barium	140	5.0	1	07/17/2020 01:54
Beryllium	ND	0.50	1	07/17/2020 01:54
Cadmium	ND	0.50	1	07/17/2020 01:54
Chromium	42	0.50	1	07/17/2020 01:54
Cobalt	9.9	0.50	1	07/17/2020 01:54
Copper	18	0.50	1	07/17/2020 01:54
Lead	4.7	0.50	1	07/17/2020 01:54
Mercury	ND	0.050	1	07/17/2020 01:54
Molybdenum	ND	0.50	1	07/17/2020 01:54
Nickel	43	0.50	1	07/17/2020 01:54
Selenium	0.81	0.50	1	07/17/2020 01:54
Silver	ND	0.50	1	07/17/2020 01:54
Thallium	ND	0.50	1	07/17/2020 01:54
Vanadium	59	0.50	1	07/17/2020 01:54
Zinc	51	5.0	1	07/17/2020 01:54

Surrogates	REC (%)	Limits	
Terbium	106	70-130	07/17/2020 01:54

Analyst(s): JAG



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-2	2007558-001A	Soil	07/10/2020 09:20	GC7 07142010.D	201655

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	07/14/2020 15:13
MTBE	ND	0.050	1	07/14/2020 15:13
Benzene	ND	0.0050	1	07/14/2020 15:13
Toluene	ND	0.0050	1	07/14/2020 15:13
Ethylbenzene	ND	0.0050	1	07/14/2020 15:13
m,p-Xylene	ND	0.010	1	07/14/2020 15:13
o-Xylene	ND	0.0050	1	07/14/2020 15:13
Xylenes	ND	0.0050	1	07/14/2020 15:13

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	93	62-126	07/14/2020 15:13

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-5	2007558-002A	Soil	07/10/2020 09:25	GC7 07142028.D	201655

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	07/15/2020 00:19
MTBE	ND	0.050	1	07/15/2020 00:19
Benzene	ND	0.0050	1	07/15/2020 00:19
Toluene	ND	0.0050	1	07/15/2020 00:19
Ethylbenzene	ND	0.0050	1	07/15/2020 00:19
m,p-Xylene	ND	0.010	1	07/15/2020 00:19
o-Xylene	ND	0.0050	1	07/15/2020 00:19
Xylenes	ND	0.0050	1	07/15/2020 00:19

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	96	62-126	07/15/2020 00:19

Analyst(s): IA

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	2007558-004A	Soil	07/10/2020 08:45	GC7 07142029.D	201655

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	07/15/2020 00:49
MTBE	ND	0.050	1	07/15/2020 00:49
Benzene	ND	0.0050	1	07/15/2020 00:49
Toluene	ND	0.0050	1	07/15/2020 00:49
Ethylbenzene	ND	0.0050	1	07/15/2020 00:49
m,p-Xylene	ND	0.010	1	07/15/2020 00:49
o-Xylene	ND	0.0050	1	07/15/2020 00:49
Xylenes	ND	0.0050	1	07/15/2020 00:49

Surrogates	REC (%)	Limits	
2-Fluorotoluene	90	62-126	07/15/2020 00:49

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-5	2007558-005A	Soil	07/10/2020 08:47	GC7 07142030.D	201655

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	07/15/2020 01:19
MTBE	ND	0.050	1	07/15/2020 01:19
Benzene	ND	0.0050	1	07/15/2020 01:19
Toluene	ND	0.0050	1	07/15/2020 01:19
Ethylbenzene	ND	0.0050	1	07/15/2020 01:19
m,p-Xylene	ND	0.010	1	07/15/2020 01:19
o-Xylene	ND	0.0050	1	07/15/2020 01:19
Xylenes	ND	0.0050	1	07/15/2020 01:19

Surrogates	REC (%)	Limits	
2-Fluorotoluene	87	62-126	07/15/2020 01:19

Analyst(s): IA

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-2	2007558-006A	Soil	07/10/2020 11:55	GC7 07142031.D	201655

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	07/15/2020 01:49
MTBE	ND	0.050	1	07/15/2020 01:49
Benzene	ND	0.0050	1	07/15/2020 01:49
Toluene	ND	0.0050	1	07/15/2020 01:49
Ethylbenzene	ND	0.0050	1	07/15/2020 01:49
m,p-Xylene	ND	0.010	1	07/15/2020 01:49
o-Xylene	ND	0.0050	1	07/15/2020 01:49
Xylenes	ND	0.0050	1	07/15/2020 01:49

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	96	62-126	07/15/2020 01:49

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-5	2007558-007A	Soil	07/10/2020 11:55	GC7 07142035.D	201655

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	07/15/2020 03:48
MTBE	ND	0.050	1	07/15/2020 03:48
Benzene	ND	0.0050	1	07/15/2020 03:48
Toluene	ND	0.0050	1	07/15/2020 03:48
Ethylbenzene	ND	0.0050	1	07/15/2020 03:48
m,p-Xylene	ND	0.010	1	07/15/2020 03:48
o-Xylene	ND	0.0050	1	07/15/2020 03:48
Xylenes	ND	0.0050	1	07/15/2020 03:48

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	93	62-126	07/15/2020 03:48

Analyst(s): IA

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP

**McC Campbell Analytical, Inc.***"When Quality Counts"*1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-1	2007558-008A	Soil	07/10/2020 11:51	GC7 07142036.D	201655

Analytes	Result	RL	DE	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	07/15/2020 04:17
MTBE	ND	0.050	1	07/15/2020 04:17
Benzene	ND	0.0050	1	07/15/2020 04:17
Toluene	ND	0.0050	1	07/15/2020 04:17
Ethylbenzene	ND	0.0050	1	07/15/2020 04:17
m,p-Xylene	ND	0.010	1	07/15/2020 04:17
o-Xylene	ND	0.0050	1	07/15/2020 04:17
Xylenes	ND	0.0050	1	07/15/2020 04:17

Surrogates	REC (%)	Limits	
2-Fluorotoluene	97	62-126	07/15/2020 04:17

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-5	2007558-010A	Soil	07/10/2020 11:51	GC7 07142037.D	201655

Analytes	Result	RL	DE	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	07/15/2020 04:47
MTBE	ND	0.050	1	07/15/2020 04:47
Benzene	ND	0.0050	1	07/15/2020 04:47
Toluene	ND	0.0050	1	07/15/2020 04:47
Ethylbenzene	ND	0.0050	1	07/15/2020 04:47
m,p-Xylene	ND	0.010	1	07/15/2020 04:47
o-Xylene	ND	0.0050	1	07/15/2020 04:47
Xylenes	ND	0.0050	1	07/15/2020 04:47

Surrogates	REC (%)	Limits	
2-Fluorotoluene	101	62-126	07/15/2020 04:47

Analyst(s): IA

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-2	2007558-011B	Soil	07/10/2020 10:55	GC7 07142041.D	201655

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	07/15/2020 06:47
MTBE	ND	0.050	1	07/15/2020 06:47
Benzene	ND	0.0050	1	07/15/2020 06:47
Toluene	ND	0.0050	1	07/15/2020 06:47
Ethylbenzene	ND	0.0050	1	07/15/2020 06:47
m,p-Xylene	ND	0.010	1	07/15/2020 06:47
o-Xylene	ND	0.0050	1	07/15/2020 06:47
Xylenes	ND	0.0050	1	07/15/2020 06:47

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	115	62-126	07/15/2020 06:47

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-5	2007558-012B	Soil	07/10/2020 10:55	GC7 07152022.D	201655

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	07/16/2020 01:10
MTBE	ND	0.050	1	07/16/2020 01:10
Benzene	ND	0.0050	1	07/16/2020 01:10
Toluene	ND	0.0050	1	07/16/2020 01:10
Ethylbenzene	ND	0.0050	1	07/16/2020 01:10
m,p-Xylene	ND	0.010	1	07/16/2020 01:10
o-Xylene	ND	0.0050	1	07/16/2020 01:10
Xylenes	ND	0.0050	1	07/16/2020 01:10

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	95	62-126	07/16/2020 01:10

Analyst(s): IA

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-2	2007558-013A	Soil	07/10/2020 11:45	GC19 07142014.D	201675
<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>		<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		1.0 1		07/14/2020 15:19
MTBE	ND		0.050 1		07/14/2020 15:19
Benzene	ND		0.0050 1		07/14/2020 15:19
Toluene	ND		0.0050 1		07/14/2020 15:19
Ethylbenzene	ND		0.0050 1		07/14/2020 15:19
m,p-Xylene	ND		0.010 1		07/14/2020 15:19
o-Xylene	ND		0.0050 1		07/14/2020 15:19
Xylenes	ND		0.0050 1		07/14/2020 15:19
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	90		62-126		07/14/2020 15:19
<u>Analyst(s):</u> IA					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-5	2007558-014A	Soil	07/10/2020 11:45	GC7 07152023.D	201675
<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>		<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		1.0 1		07/16/2020 01:40
MTBE	ND		0.050 1		07/16/2020 01:40
Benzene	ND		0.0050 1		07/16/2020 01:40
Toluene	ND		0.0050 1		07/16/2020 01:40
Ethylbenzene	ND		0.0050 1		07/16/2020 01:40
m,p-Xylene	ND		0.010 1		07/16/2020 01:40
o-Xylene	ND		0.0050 1		07/16/2020 01:40
Xylenes	ND		0.0050 1		07/16/2020 01:40
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	93		62-126		07/16/2020 01:40
<u>Analyst(s):</u> IA					

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-1	2007558-015B	Soil	07/10/2020 11:20	GC19 07142015.D	201675
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		1.0	1	07/14/2020 15:51
MTBE	ND		0.050	1	07/14/2020 15:51
Benzene	ND		0.0050	1	07/14/2020 15:51
Toluene	ND		0.0050	1	07/14/2020 15:51
Ethylbenzene	ND		0.0050	1	07/14/2020 15:51
m,p-Xylene	ND		0.010	1	07/14/2020 15:51
o-Xylene	ND		0.0050	1	07/14/2020 15:51
Xylenes	ND		0.0050	1	07/14/2020 15:51
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	90		62-126		07/14/2020 15:51
<u>Analyst(s):</u> IA					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-5	2007558-017B	Soil	07/10/2020 11:20	GC19 07142016.D	201675
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		1.0	1	07/14/2020 16:22
MTBE	ND		0.050	1	07/14/2020 16:22
Benzene	ND		0.0050	1	07/14/2020 16:22
Toluene	ND		0.0050	1	07/14/2020 16:22
Ethylbenzene	ND		0.0050	1	07/14/2020 16:22
m,p-Xylene	ND		0.010	1	07/14/2020 16:22
o-Xylene	ND		0.0050	1	07/14/2020 16:22
Xylenes	ND		0.0050	1	07/14/2020 16:22
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	81		62-126		07/14/2020 16:22
<u>Analyst(s):</u> IA					

(Cont.)



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2A	2007558-019A	Soil	07/10/2020 08:45	GC7 07152024.D	201675
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		1.0	1	07/16/2020 02:10
MTBE	ND		0.050	1	07/16/2020 02:10
Benzene	ND		0.0050	1	07/16/2020 02:10
Toluene	ND		0.0050	1	07/16/2020 02:10
Ethylbenzene	ND		0.0050	1	07/16/2020 02:10
m,p-Xylene	ND		0.010	1	07/16/2020 02:10
o-Xylene	ND		0.0050	1	07/16/2020 02:10
Xylenes	ND		0.0050	1	07/16/2020 02:10
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	95		62-126		07/16/2020 02:10
<u>Analyst(s):</u>	IA				



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/16/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1	2007558-003A	Water	07/10/2020 13:50	GC12 07162011.D	201857
Analytes	Result	RL	DF	Date Analyzed	
TPH(g) (C6-C12)	ND	50	1	07/16/2020 18:09	
MTBE	ND	1.0	1	07/16/2020 18:09	
Benzene	ND	0.50	1	07/16/2020 18:09	
Toluene	ND	0.50	1	07/16/2020 18:09	
Ethylbenzene	ND	0.50	1	07/16/2020 18:09	
m,p-Xylene	ND	1.0	1	07/16/2020 18:09	
o-Xylene	ND	0.50	1	07/16/2020 18:09	
Xylenes	ND	0.50	1	07/16/2020 18:09	
Surrogates	REC (%)	Limits		07/16/2020 18:09	
aaa-TFT	100	76-115		07/16/2020 18:09	
Analyst(s): IA					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP7	2007558-018A	Water	07/10/2020 14:30	GC12 07162012.D	201857
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		50	1	07/16/2020 18:44
MTBE	ND		1.0	1	07/16/2020 18:44
Benzene	ND		0.50	1	07/16/2020 18:44
Toluene	ND		0.50	1	07/16/2020 18:44
Ethylbenzene	ND		0.50	1	07/16/2020 18:44
m,p-Xylene	ND		1.0	1	07/16/2020 18:44
o-Xylene	ND		0.50	1	07/16/2020 18:44
Xylenes	ND		0.50	1	07/16/2020 18:44
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
aaa-TFT	100		76-115		07/16/2020 18:44
Analyst(s): IA					

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/16/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1a	2007558-020A	Water	07/10/2020 13:50	GC12 07162013.D	201857
<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>		<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		50 1		07/16/2020 19:18
MTBE	ND		1.0 1		07/16/2020 19:18
Benzene	ND		0.50 1		07/16/2020 19:18
Toluene	ND		0.50 1		07/16/2020 19:18
Ethylbenzene	ND		0.50 1		07/16/2020 19:18
m,p-Xylene	ND		1.0 1		07/16/2020 19:18
o-Xylene	ND		0.50 1		07/16/2020 19:18
Xylenes	ND		0.50 1		07/16/2020 19:18
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
aaa-TFT	100		76-115		07/16/2020 19:18
<u>Analyst(s):</u>	IA				



Analytical Report

Client: Trident Env. & Eng., Inc.

Date Received: 07/10/2020 18:00

Date Prepared: 07/13/2020

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

Extraction Method: SW3550B

Analytical Method: SW8015B

Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-2	2007558-001A	Soil	07/10/2020 09:20	GC31B 07152033.D	201651

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	13	5.0	5	07/15/2020 21:48
TPH-Motor Oil (C18-C36)	870	25	5	07/15/2020 21:48

Surrogates	REC (%)	Limits	Date Analyzed
C9	86	70-130	07/15/2020 21:48

Analyst(s): JIS

Analytical Comments: e2,e7,e8,j1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-5	2007558-002A	Soil	07/10/2020 09:25	GC31B 07142046.D	201651

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	07/14/2020 23:59
TPH-Motor Oil (C18-C36)	ND	5.0	1	07/14/2020 23:59

Surrogates	REC (%)	Limits	Date Analyzed
C9	93	70-130	07/14/2020 23:59

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	2007558-004A	Soil	07/10/2020 08:45	GC31B 07142049.D	201651

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	07/15/2020 01:17
TPH-Motor Oil (C18-C36)	ND	5.0	1	07/15/2020 01:17

Surrogates	REC (%)	Limits	Date Analyzed
C9	92	70-130	07/15/2020 01:17

Analyst(s): JIS

(Cont.)



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-5	2007558-005A	Soil	07/10/2020 08:47	GC31B 07142031.D	201651

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	07/14/2020 19:20
TPH-Motor Oil (C18-C36)	ND	5.0	1	07/14/2020 19:20

Surrogates	REC (%)	Limits	
C9	87	70-130	07/14/2020 19:20

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-2	2007558-006A	Soil	07/10/2020 11:55	GC11B 07152033.D	201651

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	2.4	1.0	1	07/15/2020 20:57
TPH-Motor Oil (C18-C36)	36	5.0	1	07/15/2020 20:57

Surrogates	REC (%)	Limits	
C9	84	70-130	07/15/2020 20:57

Analyst(s): JIS

Analytical Comments: e2,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-5	2007558-007A	Soil	07/10/2020 11:55	GC31B 07142033.D	201651

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	07/14/2020 20:01
TPH-Motor Oil (C18-C36)	ND	5.0	1	07/14/2020 20:01

Surrogates	REC (%)	Limits	
C9	88	70-130	07/14/2020 20:01

Analyst(s): JIS

(Cont.)



Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-1	2007558-008A	Soil	07/10/2020 11:51	GC9a 07142016.D	201651

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	5.2	1.0	1	07/14/2020 14:17
TPH-Motor Oil (C18-C36)	29	5.0	1	07/14/2020 14:17

Surrogates	REC (%)	Limits	Date Analyzed
C9	85	70-130	07/14/2020 14:17

Analyst(s): JIS

Analytical Comments: e2,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-5	2007558-010A	Soil	07/10/2020 11:51	GC9a 07142018.D	201651

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	07/14/2020 14:55
TPH-Motor Oil (C18-C36)	ND	5.0	1	07/14/2020 14:55

Surrogates	REC (%)	Limits	Date Analyzed
C9	85	70-130	07/14/2020 14:55

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-2	2007558-011B	Soil	07/10/2020 10:55	GC9a 07142020.D	201651

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	07/14/2020 15:34
TPH-Motor Oil (C18-C36)	ND	5.0	1	07/14/2020 15:34

Surrogates	REC (%)	Limits	Date Analyzed
C9	85	70-130	07/14/2020 15:34

Analyst(s): JIS

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-5	2007558-012B	Soil	07/10/2020 10:55	GC9a 07142022.D	201651

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	07/14/2020 16:13
TPH-Motor Oil (C18-C36)	ND	5.0	1	07/14/2020 16:13

Surrogates	REC (%)	Limits	
C9	85	70-130	07/14/2020 16:13

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-2	2007558-013A	Soil	07/10/2020 11:45	GC6B 07142009.D	201651

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	07/14/2020 12:28
TPH-Motor Oil (C18-C36)	ND	5.0	1	07/14/2020 12:28

Surrogates	REC (%)	Limits	
C9	95	70-130	07/14/2020 12:28

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-5	2007558-014A	Soil	07/10/2020 11:45	GC9a 07142026.D	201651

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	07/14/2020 17:32
TPH-Motor Oil (C18-C36)	ND	5.0	1	07/14/2020 17:32

Surrogates	REC (%)	Limits	
C9	85	70-130	07/14/2020 17:32

Analyst(s): JIS

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: Trident Env. & Eng., Inc.

Date Received: 07/10/2020 18:00

Date Prepared: 07/13/2020

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

Extraction Method: SW3550B

Analytical Method: SW8015B

Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-1	2007558-015B	Soil	07/10/2020 11:20	GC9b 07132065.D	201676

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	07/14/2020 05:15
TPH-Motor Oil (C18-C36)	18	5.0	1	07/14/2020 05:15

Surrogates	REC (%)	Limits	Date Analyzed
C9	103	70-130	07/14/2020 05:15

Analyst(s): JIS **Analytical Comments:** e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-5	2007558-017B	Soil	07/10/2020 11:20	GC9a 07142028.D	201676

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	07/14/2020 18:10
TPH-Motor Oil (C18-C36)	ND	5.0	1	07/14/2020 18:10

Surrogates	REC (%)	Limits	Date Analyzed
C9	86	70-130	07/14/2020 18:10

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2A	2007558-019A	Soil	07/10/2020 08:45	GC9a 07142030.D	201676

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	07/14/2020 18:49
TPH-Motor Oil (C18-C36)	ND	5.0	1	07/14/2020 18:49

Surrogates	REC (%)	Limits	Date Analyzed
C9	86	70-130	07/14/2020 18:49

Analyst(s): JIS



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 07/13/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1	2007558-003B	Water	07/10/2020 13:50	GC9b 07142009.D	201662
<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>		<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1000 20		07/14/2020 12:20
TPH-Motor Oil (C18-C36)	31,000		5000 20		07/14/2020 12:20
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	108		70-130		07/14/2020 12:20
<u>Analyst(s):</u> JIS		<u>Analytical Comments:</u> a3,e7			
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP7	2007558-018B	Water	07/10/2020 14:30	GC6A 07142030.D	201662
<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>		<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		50 1		07/14/2020 19:17
TPH-Motor Oil (C18-C36)	ND		250 1		07/14/2020 19:17
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	86		70-130		07/14/2020 19:17
<u>Analyst(s):</u> JIS					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1a	2007558-020B	Water	07/10/2020 13:50	GC6A 07142032.D	201662
<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>		<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		50 1		07/14/2020 19:57
TPH-Motor Oil (C18-C36)	ND		250 1		07/14/2020 19:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	85		70-130		07/14/2020 19:57
<u>Analyst(s):</u> JIS					



Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/13/2020

Date Analyzed: 07/14/2020 - 07/15/2020

Instrument: GC18, GC28

Matrix: Soil

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 201653

Extraction Method: SW5030B

Analytical Method: SW8260B

Unit: mg/kg

Sample ID: MB/LCS/LCSD-201653

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	0.0390	0.100	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.00100	0.00500	-	-	-
Benzene	ND	0.00160	0.00500	-	-	-
Bromobenzene	ND	0.00300	0.00500	-	-	-
Bromochloromethane	ND	0.00150	0.00500	-	-	-
Bromodichloromethane	ND	0.00120	0.00500	-	-	-
Bromoform	0.00120,J	0.00120	0.00500	-	-	-
Bromomethane	ND	0.00200	0.00500	-	-	-
2-Butanone (MEK)	ND	0.0210	0.0500	-	-	-
t-Butyl alcohol (TBA)	ND	0.00530	0.0500	-	-	-
n-Butyl benzene	ND	0.00350	0.00500	-	-	-
sec-Butyl benzene	ND	0.00340	0.00500	-	-	-
tert-Butyl benzene	ND	0.00290	0.00500	-	-	-
Carbon Disulfide	ND	0.00360	0.00500	-	-	-
Carbon Tetrachloride	ND	0.00170	0.00500	-	-	-
Chlorobenzene	ND	0.00180	0.00500	-	-	-
Chloroethane	ND	0.00160	0.00500	-	-	-
Chloroform	ND	0.00160	0.00500	-	-	-
Chloromethane	ND	0.00170	0.00500	-	-	-
2-Chlorotoluene	ND	0.00220	0.00500	-	-	-
4-Chlorotoluene	ND	0.00240	0.00500	-	-	-
Dibromochloromethane	ND	0.00110	0.00500	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.00370	0.00500	-	-	-
1,2-Dibromoethane (EDB)	ND	0.00130	0.00400	-	-	-
Dibromomethane	ND	0.00140	0.00500	-	-	-
1,2-Dichlorobenzene	ND	0.00320	0.00500	-	-	-
1,3-Dichlorobenzene	ND	0.00180	0.00500	-	-	-
1,4-Dichlorobenzene	ND	0.00180	0.00500	-	-	-
Dichlorodifluoromethane	ND	0.00110	0.00500	-	-	-
1,1-Dichloroethane	ND	0.00170	0.00500	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.00140	0.00400	-	-	-
1,1-Dichloroethene	ND	0.00170	0.00500	-	-	-
cis-1,2-Dichloroethene	ND	0.00150	0.00500	-	-	-
trans-1,2-Dichloroethene	ND	0.00160	0.00500	-	-	-
1,2-Dichloropropane	ND	0.00140	0.00500	-	-	-
1,3-Dichloropropane	ND	0.00160	0.00500	-	-	-
2,2-Dichloropropane	ND	0.00130	0.00500	-	-	-
1,1-Dichloropropene	ND	0.00180	0.00500	-	-	-

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020 - 07/15/2020
Instrument: GC18, GC28
Matrix: Soil
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201653
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS/LCSD-201653

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.00150	0.00500	-	-	-
trans-1,3-Dichloropropene	ND	0.00140	0.00500	-	-	-
Diisopropyl ether (DIPE)	ND	0.00140	0.00500	-	-	-
Ethylbenzene	ND	0.00250	0.00500	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.00130	0.00500	-	-	-
Freon 113	ND	0.00160	0.00500	-	-	-
Hexachlorobutadiene	ND	0.00500	0.00500	-	-	-
Hexachloroethane	ND	0.00250	0.00500	-	-	-
2-Hexanone	ND	0.00220	0.00500	-	-	-
Isopropylbenzene	ND	0.00320	0.00500	-	-	-
4-Isopropyl toluene	ND	0.00320	0.00500	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.00130	0.00500	-	-	-
Methylene chloride	ND	0.0100	0.0200	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.000800	0.00500	-	-	-
Naphthalene	ND	0.00440	0.00500	-	-	-
n-Propyl benzene	ND	0.00290	0.00500	-	-	-
Styrene	ND	0.00300	0.00500	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.00160	0.00500	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.00130	0.00500	-	-	-
Tetrachloroethene	ND	0.00230	0.00500	-	-	-
Toluene	ND	0.00240	0.00500	-	-	-
1,2,3-Trichlorobenzene	ND	0.00300	0.00500	-	-	-
1,2,4-Trichlorobenzene	ND	0.00290	0.00500	-	-	-
1,1,1-Trichloroethane	ND	0.00180	0.00500	-	-	-
1,1,2-Trichloroethane	ND	0.00190	0.00500	-	-	-
Trichloroethene	ND	0.00170	0.00500	-	-	-
Trichlorofluoromethane	ND	0.00160	0.00500	-	-	-
1,2,3-Trichloropropane	ND	0.00190	0.00500	-	-	-
1,2,4-Trimethylbenzene	ND	0.00280	0.00500	-	-	-
1,3,5-Trimethylbenzene	ND	0.00260	0.00500	-	-	-
Vinyl Chloride	ND	0.00150	0.00500	-	-	-
m,p-Xylene	ND	0.00400	0.00500	-	-	-
o-Xylene	ND	0.00180	0.00500	-	-	-

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020 - 07/15/2020
Instrument: GC18, GC28
Matrix: Soil
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201653
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS/LCSD-201653

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	0.130			0.125	104	66-112
Toluene-d8	0.128			0.125	103	92-109
4-BFB	0.0118			0.0125	94	72-112
Benzene-d6	0.105			0.1	105	81-126
Ethylbenzene-d10	0.117			0.1	117	92-138
1,2-DCB-d4	0.0832			0.1	83	68-108

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020 - 07/15/2020
Instrument: GC18, GC28
Matrix: Soil
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201653
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS/LCSD-201653

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	0.221	0.242	0.20	111	121	59-127	8.89	20
tert-Amyl methyl ether (TAME)	0.0160	0.0167	0.020	80	83	54-98	4.21	20
Benzene	0.0184	0.0191	0.020	92	95	71-115	3.98	20
Bromobenzene	0.0192	0.0187	0.020	96	93	69-120	2.74	20
Bromochloromethane	0.0191	0.0195	0.020	95	98	63-117	2.30	20
Bromodichloromethane	0.0185	0.0193	0.020	92	97	61-109	4.61	20
Bromoform	0.0156	0.0155	0.020	78	77	46-87	0.801	20
Bromomethane	0.0166	0.0180	0.020	83	90	22-195	8.01	20
2-Butanone (MEK)	0.0690	0.0705	0.080	86	88	53-124	2.08	20
t-Butyl alcohol (TBA)	0.0686	0.0717	0.080	86	90	29-142	4.43	20
n-Butyl benzene	0.0235	0.0237	0.020	118	118	102-169	0.701	20
sec-Butyl benzene	0.0236	0.0234	0.020	118	117	100-166	0.768	20
tert-Butyl benzene	0.0236	0.0230	0.020	118	115	91-153	2.43	20
Carbon Disulfide	0.0156	0.0163	0.020	78	82	60-125	4.40	20
Carbon Tetrachloride	0.0201	0.0209	0.020	100	104	69-124	3.88	20
Chlorobenzene	0.0192	0.0192	0.020	96	96	73-116	0.160	20
Chloroethane	0.0163	0.0170	0.020	81	85	47-140	4.14	20
Chloroform	0.0196	0.0205	0.020	98	102	69-118	4.17	20
Chloromethane	0.00988	0.0113	0.020	49	56	30-132	13.1	20
2-Chlorotoluene	0.0221	0.0214	0.020	110	107	75-147	3.27	20
4-Chlorotoluene	0.0215	0.0214	0.020	107	107	75-137	0.460	20
Dibromochloromethane	0.0170	0.0168	0.020	85	84	57-105	1.37	20
1,2-Dibromo-3-chloropropane	0.00656	0.00656	0.010	66	66	36-103	0.0373	20
1,2-Dibromoethane (EDB)	0.00864	0.00854	0.010	86	85	66-101	1.09	20
Dibromomethane	0.0177	0.0181	0.020	88	90	61-103	2.30	20
1,2-Dichlorobenzene	0.0166	0.0162	0.020	83	81	59-104	2.83	20
1,3-Dichlorobenzene	0.0201	0.0198	0.020	100	99	70-133	1.14	20
1,4-Dichlorobenzene	0.0190	0.0189	0.020	95	94	68-123	0.834	20
Dichlorodifluoromethane	0.00208	0.00224	0.020	10,F2	11,F2	13-107	7.68	20
1,1-Dichloroethane	0.0184	0.0193	0.020	92	96	69-118	4.68	20
1,2-Dichloroethane (1,2-DCA)	0.0179	0.0186	0.020	90	93	59-112	3.48	20
1,1-Dichloroethene	0.0166	0.0174	0.020	83	87	69-126	4.33	20
cis-1,2-Dichloroethene	0.0180	0.0188	0.020	90	94	69-116	4.13	20
trans-1,2-Dichloroethene	0.0181	0.0186	0.020	91	93	73-116	2.54	20
1,2-Dichloropropane	0.0179	0.0187	0.020	90	94	65-111	4.33	20
1,3-Dichloropropane	0.0186	0.0184	0.020	93	92	67-110	0.855	20
2,2-Dichloropropane	0.0214	0.0225	0.020	107	112	65-125	5.02	20
1,1-Dichloropropene	0.0179	0.0200	0.020	90	100	70-123	10.7	20

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/13/2020

Date Analyzed: 07/14/2020 - 07/15/2020

Instrument: GC18, GC28

Matrix: Soil

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 201653

Extraction Method: SW5030B

Analytical Method: SW8260B

Unit: mg/kg

Sample ID: MB/LCS/LCSD-201653

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.0192	0.0188	0.020	96	94	68-126	2.06	20
trans-1,3-Dichloropropene	0.0194	0.0191	0.020	97	96	69-117	1.59	20
Diisopropyl ether (DIPE)	0.0184	0.0193	0.020	92	96	57-110	4.52	20
Ethylbenzene	0.0201	0.0202	0.020	100	101	80-128	0.526	20
Ethyl tert-butyl ether (ETBE)	0.0178	0.0188	0.020	89	94	54-106	5.45	20
Freon 113	0.0152	0.0159	0.020	76	80	60-108	4.41	20
Hexachlorobutadiene	0.0224	0.0226	0.020	112	113	67-182	1.26	20
Hexachloroethane	0.0230	0.0227	0.020	115	114	85-156	1.39	20
2-Hexanone	0.0140	0.0135	0.020	70	67	37-90	3.71	20
Isopropylbenzene	0.0241	0.0236	0.020	120	118	64-167	1.78	20
4-Isopropyl toluene	0.0242	0.0242	0.020	121	121	88-167	0.267	20
Methyl-t-butyl ether (MTBE)	0.0171	0.0180	0.020	85	90	60-102	5.34	20
Methylene chloride	0.0186	0.0196	0.020	93	98	71-117	5.33	20
4-Methyl-2-pentanone (MIBK)	0.0142	0.0134	0.020	71	67	48-90	5.78	20
Naphthalene	0.00831	0.00793	0.020	42	40	29-65	4.63	20
n-Propyl benzene	0.0247	0.0243	0.020	124	121	88-161	1.74	20
Styrene	0.0174	0.0175	0.020	87	87	70-108	0.204	20
1,1,1,2-Tetrachloroethane	0.0187	0.0183	0.020	93	92	69-117	1.91	20
1,1,2,2-Tetrachloroethane	0.0154	0.0148	0.020	77	74	53-96	3.90	20
Tetrachloroethene	0.0198	0.0196	0.020	99	98	78-128	0.702	20
Toluene	0.0200	0.0200	0.020	100	100	78-121	0.157	20
1,2,3-Trichlorobenzene	0.0107	0.0107	0.020	53	54	35-80	0.501	20
1,2,4-Trichlorobenzene	0.0143	0.0140	0.020	72	70	46-101	2.17	20
1,1,1-Trichloroethane	0.0191	0.0202	0.020	95	101	69-121	5.75	20
1,1,2-Trichloroethane	0.0173	0.0172	0.020	86	86	64-104	0.681	20
Trichloroethene	0.0193	0.0202	0.020	96	101	73-118	4.74	20
Trichlorofluoromethane	0.0148	0.0154	0.020	74	77	31-119	4.23	20
1,2,3-Trichloropropane	0.00806	0.00781	0.010	81	78	65-107	3.16	20
1,2,4-Trimethylbenzene	0.0222	0.0222	0.020	111	111	80-147	0.156	20
1,3,5-Trimethylbenzene	0.0232	0.0233	0.020	116	116	83-156	0.434	20
Vinyl Chloride	0.00686	0.00728	0.010	69	73	40-125	5.93	20
m,p-Xylene	0.0390	0.0398	0.040	97	99	80-122	2.10	20
o-Xylene	0.0189	0.0194	0.020	94	97	79-116	2.69	20

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020 - 07/15/2020
Instrument: GC18, GC28
Matrix: Soil
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201653
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS/LCSD-201653

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	0.132	0.137	0.12	105	109	66-112	3.66	20
Toluene-d8	0.129	0.129	0.12	103	103	92-109	0.137	20
4-BFB	0.0124	0.0121	0.012	99	97	72-112	1.85	20
Benzene-d6	0.108	0.113	0.10	108	113	81-126	4.58	20
Ethylbenzene-d10	0.121	0.122	0.10	121	122	92-138	1.02	20
1,2-DCB-d4	0.0887	0.0875	0.10	89	88	68-108	1.32	20



Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/17/2020

Date Analyzed: 07/17/2020

Instrument: GC16

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 202085

Extraction Method: SW5030B

Analytical Method: SW8260B

Unit: µg/L

Sample ID: MB/LCS/LCSD-202085

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	30.0	40.0	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0610	0.500	-	-	-
Benzene	ND	0.0360	0.500	-	-	-
Bromobenzene	ND	0.0970	0.500	-	-	-
Bromochloromethane	ND	0.0720	0.500	-	-	-
Bromodichloromethane	ND	0.0270	0.500	-	-	-
Bromoform	ND	0.210	0.500	-	-	-
Bromomethane	ND	0.270	0.500	-	-	-
2-Butanone (MEK)	ND	2.10	5.00	-	-	-
t-Butyl alcohol (TBA)	ND	2.20	5.00	-	-	-
n-Butyl benzene	ND	0.0830	0.500	-	-	-
sec-Butyl benzene	ND	0.0750	0.500	-	-	-
tert-Butyl benzene	ND	0.0920	0.500	-	-	-
Carbon Disulfide	ND	0.120	0.500	-	-	-
Carbon Tetrachloride	ND	0.0470	0.500	-	-	-
Chlorobenzene	ND	0.0870	0.500	-	-	-
Chloroethane	ND	0.160	0.500	-	-	-
Chloroform	ND	0.0850	0.500	-	-	-
Chloromethane	ND	0.0960	0.500	-	-	-
2-Chlorotoluene	ND	0.0890	0.500	-	-	-
4-Chlorotoluene	ND	0.0890	0.500	-	-	-
Dibromochloromethane	ND	0.0830	0.500	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.160	1.00	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0750	0.500	-	-	-
Dibromomethane	ND	0.0510	0.500	-	-	-
1,2-Dichlorobenzene	ND	0.0700	0.500	-	-	-
1,3-Dichlorobenzene	ND	0.0840	0.500	-	-	-
1,4-Dichlorobenzene	ND	0.0680	0.500	-	-	-
Dichlorodifluoromethane	ND	0.140	0.500	-	-	-
1,1-Dichloroethane	ND	0.0720	0.500	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0180	0.500	-	-	-
1,1-Dichloroethene	ND	0.0150	0.500	-	-	-
cis-1,2-Dichloroethene	ND	0.0690	0.500	-	-	-
trans-1,2-Dichloroethene	ND	0.110	0.500	-	-	-
1,2-Dichloropropane	ND	0.0110	0.500	-	-	-
1,3-Dichloropropane	ND	0.0740	0.500	-	-	-
2,2-Dichloropropane	ND	0.130	0.500	-	-	-
1,1-Dichloropropene	ND	0.0850	0.500	-	-	-

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/17/2020
Date Analyzed: 07/17/2020
Instrument: GC16
Matrix: Water
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 202085
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-202085

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.0660	0.500	-	-	-
trans-1,3-Dichloropropene	ND	0.0930	0.500	-	-	-
Diisopropyl ether (DIPE)	ND	0.0710	0.500	-	-	-
Ethylbenzene	ND	0.0810	0.500	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0630	0.500	-	-	-
Freon 113	ND	0.0930	0.500	-	-	-
Hexachlorobutadiene	ND	0.130	0.500	-	-	-
Hexachloroethane	ND	0.0360	0.500	-	-	-
2-Hexanone	ND	0.360	1.00	-	-	-
Isopropylbenzene	ND	0.0900	0.500	-	-	-
4-Isopropyl toluene	ND	0.0610	0.500	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.120	0.500	-	-	-
Methylene chloride	ND	1.00	2.00	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.140	0.500	-	-	-
Naphthalene	ND	0.430	1.00	-	-	-
n-Propyl benzene	ND	0.0900	0.500	-	-	-
Styrene	ND	0.470	2.00	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.0820	0.500	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.0350	0.500	-	-	-
Tetrachloroethene	ND	0.0790	0.500	-	-	-
Toluene	ND	0.190	0.500	-	-	-
1,2,3-Trichlorobenzene	ND	0.300	0.500	-	-	-
1,2,4-Trichlorobenzene	ND	0.200	0.500	-	-	-
1,1,1-Trichloroethane	ND	0.0740	0.500	-	-	-
1,1,2-Trichloroethane	ND	0.150	0.500	-	-	-
Trichloroethene	ND	0.190	0.500	-	-	-
Trichlorofluoromethane	ND	0.0980	0.500	-	-	-
1,2,3-Trichloropropane	ND	0.0250	0.500	-	-	-
1,2,4-Trimethylbenzene	ND	0.0680	0.500	-	-	-
1,3,5-Trimethylbenzene	ND	0.0820	0.500	-	-	-
Vinyl Chloride	ND	0.0520	0.500	-	-	-
m,p-Xylene	ND	0.150	0.500	-	-	-
o-Xylene	ND	0.0700	0.500	-	-	-

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/17/2020

Date Analyzed: 07/17/2020

Instrument: GC16

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 202085

Extraction Method: SW5030B

Analytical Method: SW8260B

Unit: µg/L

Sample ID: MB/LCS/LCSD-202085

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	26.0			25	104	76-110
Toluene-d8	25.1			25	101	84-111
4-BFB	2.58			2.5	103	64-121

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/17/2020
Date Analyzed: 07/17/2020
Instrument: GC16
Matrix: Water
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 202085
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-202085

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	47.4	51.9	40	118	130	32-138	9.04	20
tert-Amyl methyl ether (TAME)	4.22	4.44	4	105	111	62-119	5.18	20
Benzene	4.74	4.72	4	118	118	71-126	0.403	20
Bromobenzene	4.02	4.06	4	101	102	66-117	1.01	20
Bromochloromethane	4.18	4.34	4	104	109	67-124	3.81	20
Bromodichloromethane	4.25	4.30	4	106	108	63-119	1.19	20
Bromoform	3.72	4.05	4	93	101	46-117	8.54	20
Bromomethane	4.85	4.75	4	121	119	32-171	2.22	20
2-Butanone (MEK)	19.7	21.4	16	123	134	48-136	8.45	20
t-Butyl alcohol (TBA)	16.4	16.6	16	102	104	40-131	1.27	20
n-Butyl benzene	4.89	4.74	4	122	119	75-125	3.04	20
sec-Butyl benzene	4.40	4.42	4	110	111	72-120	0.553	20
tert-Butyl benzene	4.09	4.10	4	102	103	63-118	0.335	20
Carbon Disulfide	4.54	4.53	4	113	113	64-126	0.154	20
Carbon Tetrachloride	3.87	3.84	4	97	96	67-122	0.876	20
Chlorobenzene	4.38	4.36	4	110	109	71-117	0.567	20
Chloroethane	4.60	4.65	4	115	116	53-136	1.14	20
Chloroform	4.47	4.47	4	112	112	67-126	0.106	20
Chloromethane	4.69	4.59	4	117	115	42-148	2.06	20
2-Chlorotoluene	4.20	4.31	4	105	108	70-117	2.64	20
4-Chlorotoluene	4.20	4.24	4	105	106	67-117	0.768	20
Dibromochloromethane	4.00	4.09	4	100	102	52-120	2.20	20
1,2-Dibromo-3-chloropropane	1.89	1.98	2	95	99	38-128	4.25	20
1,2-Dibromoethane (EDB)	2.02	2.09	2	101	105	58-117	3.49	20
Dibromomethane	4.37	4.48	4	109	112	66-120	2.44	20
1,2-Dichlorobenzene	4.38	4.37	4	109	109	71-117	0.177	20
1,3-Dichlorobenzene	4.30	4.23	4	107	106	74-116	1.62	20
1,4-Dichlorobenzene	4.36	4.42	4	109	111	71-115	1.53	20
Dichlorodifluoromethane	3.52	3.36	4	88	84	29-145	4.71	20
1,1-Dichloroethane	4.62	4.62	4	116	116	68-128	0.0627	20
1,2-Dichloroethane (1,2-DCA)	3.96	4.04	4	99	101	61-123	1.84	20
1,1-Dichloroethene	4.05	4.02	4	101	100	65-126	0.797	20
cis-1,2-Dichloroethene	4.45	4.50	4	111	113	71-122	1.08	20
trans-1,2-Dichloroethene	4.35	4.41	4	109	110	70-126	1.42	20
1,2-Dichloropropane	4.58	4.58	4	115	115	67-124	0.00437	20
1,3-Dichloropropane	4.17	4.32	4	104	108	65-120	3.59	20
2,2-Dichloropropane	4.62	4.54	4	116	113	71-127	1.84	20
1,1-Dichloropropene	4.37	4.31	4	109	108	69-122	1.34	20

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/17/2020

Date Analyzed: 07/17/2020

Instrument: GC16

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 202085

Extraction Method: SW5030B

Analytical Method: SW8260B

Unit: µg/L

Sample ID: MB/LCS/LCSD-202085

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	4.22	4.28	4	106	107	63-119	1.32	20
trans-1,3-Dichloropropene	4.09	4.19	4	102	105	63-116	2.21	20
Diisopropyl ether (DIPE)	4.95	5.04	4	124	126	64-128	1.65	20
Ethylbenzene	4.35	4.38	4	109	110	69-120	0.826	20
Ethyl tert-butyl ether (ETBE)	4.41	4.61	4	110	115	63-120	4.28	20
Freon 113	4.16	4.15	4	104	104	67-126	0.325	20
Hexachlorobutadiene	3.89	3.68	4	97	92	50-140	5.52	20
Hexachloroethane	4.46	4.41	4	112	110	52-122	1.15	20
2-Hexanone	4.08	4.32	4	102	108	39-121	5.93	20
Isopropylbenzene	4.40	4.39	4	110	110	69-120	0.356	20
4-Isopropyl toluene	4.48	4.45	4	112	111	72-122	0.571	20
Methyl-t-butyl ether (MTBE)	4.14	4.34	4	103	109	60-121	4.83	20
Methylene chloride	4.27	4.34	4	107	108	40-148	1.61	20
4-Methyl-2-pentanone (MIBK)	4.15	4.56	4	104	114	48-115	9.37	20
Naphthalene	4.52	4.51	4	113	113	62-124	0.138	20
n-Propyl benzene	4.29	4.34	4	107	108	70-118	1.08	20
Styrene	4.17	4.25	4	104	106	57-118	1.89	20
1,1,1,2-Tetrachloroethane	4.02	4.04	4	100	101	63-117	0.693	20
1,1,2,2-Tetrachloroethane	4.11	4.28	4	103	107	60-116	4.11	20
Tetrachloroethene	3.78	3.75	4	94	94	60-131	0.861	20
Toluene	4.24	4.31	4	106	108	67-115	1.61	20
1,2,3-Trichlorobenzene	4.28	4.11	4	107	103	60-128	4.01	20
1,2,4-Trichlorobenzene	4.28	4.14	4	107	104	61-133	3.19	20
1,1,1-Trichloroethane	4.13	4.08	4	103	102	67-124	1.07	20
1,1,2-Trichloroethane	3.96	4.06	4	99	102	62-117	2.57	20
Trichloroethene	4.17	4.17	4	104	104	69-120	0.112	20
Trichlorofluoromethane	3.88	3.87	4	97	97	60-134	0.250	20
1,2,3-Trichloropropane	1.93	2.04	2	97	102	56-120	5.76	20
1,2,4-Trimethylbenzene	4.48	4.36	4	112	109	67-124	2.68	20
1,3,5-Trimethylbenzene	4.43	4.36	4	111	109	69-122	1.58	20
Vinyl Chloride	2.37	2.36	2	119	118	52-145	0.660	20
m,p-Xylene	8.33	8.45	8	104	106	67-119	1.42	20
o-Xylene	4.28	4.37	4	107	109	68-120	1.98	20

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/17/2020
Date Analyzed: 07/17/2020
Instrument: GC16
Matrix: Water
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 202085
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-202085

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	25.4	25.5	25	102	102	76-110	0.461	20
Toluene-d8	25.1	25.0	25	100	100	84-111	0.493	20
4-BFB	2.46	2.50	2.5	99	100	64-121	1.61	20

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/18/2020

Date Analyzed: 07/18/2020

Instrument: GC16

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 202090

Extraction Method: SW5030B

Analytical Method: SW8260B

Unit: µg/L

Sample ID: MB/LCS/LCSD-202090

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RLM	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	30.0	40.0	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0610	0.500	-	-	-
Benzene	ND	0.0360	0.500	-	-	-
Bromobenzene	ND	0.0970	0.500	-	-	-
Bromochloromethane	ND	0.0720	0.500	-	-	-
Bromodichloromethane	ND	0.0270	0.500	-	-	-
Bromoform	ND	0.210	0.500	-	-	-
Bromomethane	ND	0.270	0.500	-	-	-
2-Butanone (MEK)	ND	2.10	5.00	-	-	-
t-Butyl alcohol (TBA)	ND	2.20	5.00	-	-	-
n-Butyl benzene	ND	0.0830	0.500	-	-	-
sec-Butyl benzene	ND	0.0750	0.500	-	-	-
tert-Butyl benzene	ND	0.0920	0.500	-	-	-
Carbon Disulfide	ND	0.120	0.500	-	-	-
Carbon Tetrachloride	ND	0.0470	0.500	-	-	-
Chlorobenzene	ND	0.0870	0.500	-	-	-
Chloroethane	ND	0.160	0.500	-	-	-
Chloroform	ND	0.0850	0.500	-	-	-
Chloromethane	ND	0.0960	0.500	-	-	-
2-Chlorotoluene	ND	0.0890	0.500	-	-	-
4-Chlorotoluene	ND	0.0890	0.500	-	-	-
Dibromochloromethane	ND	0.0830	0.500	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.160	1.00	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0750	0.500	-	-	-
Dibromomethane	ND	0.0510	0.500	-	-	-
1,2-Dichlorobenzene	ND	0.0700	0.500	-	-	-
1,3-Dichlorobenzene	ND	0.0840	0.500	-	-	-
1,4-Dichlorobenzene	ND	0.0680	0.500	-	-	-
Dichlorodifluoromethane	ND	0.140	0.500	-	-	-
1,1-Dichloroethane	ND	0.0720	0.500	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0180	0.500	-	-	-
1,1-Dichloroethene	ND	0.0150	0.500	-	-	-
cis-1,2-Dichloroethene	ND	0.0690	0.500	-	-	-
trans-1,2-Dichloroethene	ND	0.110	0.500	-	-	-
1,2-Dichloropropane	ND	0.0110	0.500	-	-	-
1,3-Dichloropropane	ND	0.0740	0.500	-	-	-
2,2-Dichloropropane	ND	0.130	0.500	-	-	-
1,1-Dichloropropene	ND	0.0850	0.500	-	-	-

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/18/2020
Date Analyzed: 07/18/2020
Instrument: GC16
Matrix: Water
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 202090
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-202090

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.0660	0.500	-	-	-
trans-1,3-Dichloropropene	ND	0.0930	0.500	-	-	-
Diisopropyl ether (DIPE)	ND	0.0710	0.500	-	-	-
Ethylbenzene	ND	0.0810	0.500	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0630	0.500	-	-	-
Freon 113	ND	0.0930	0.500	-	-	-
Hexachlorobutadiene	ND	0.130	0.500	-	-	-
Hexachloroethane	ND	0.0360	0.500	-	-	-
2-Hexanone	ND	0.360	1.00	-	-	-
Isopropylbenzene	ND	0.0900	0.500	-	-	-
4-Isopropyl toluene	ND	0.0610	0.500	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.120	0.500	-	-	-
Methylene chloride	ND	1.00	2.00	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.140	0.500	-	-	-
Naphthalene	ND	0.430	1.00	-	-	-
n-Propyl benzene	ND	0.0900	0.500	-	-	-
Styrene	ND	0.470	2.00	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.0820	0.500	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.0350	0.500	-	-	-
Tetrachloroethene	ND	0.0790	0.500	-	-	-
Toluene	ND	0.190	0.500	-	-	-
1,2,3-Trichlorobenzene	ND	0.300	0.500	-	-	-
1,2,4-Trichlorobenzene	ND	0.200	0.500	-	-	-
1,1,1-Trichloroethane	ND	0.0740	0.500	-	-	-
1,1,2-Trichloroethane	ND	0.150	0.500	-	-	-
Trichloroethene	ND	0.190	0.500	-	-	-
Trichlorofluoromethane	ND	0.0980	0.500	-	-	-
1,2,3-Trichloropropane	ND	0.0250	0.500	-	-	-
1,2,4-Trimethylbenzene	ND	0.0680	0.500	-	-	-
1,3,5-Trimethylbenzene	ND	0.0820	0.500	-	-	-
Vinyl Chloride	ND	0.0520	0.500	-	-	-
m,p-Xylene	ND	0.150	0.500	-	-	-
o-Xylene	ND	0.0700	0.500	-	-	-

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/18/2020

Date Analyzed: 07/18/2020

Instrument: GC16

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 202090

Extraction Method: SW5030B

Analytical Method: SW8260B

Unit: µg/L

Sample ID: MB/LCS/LCSD-202090

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	26.2			25	105	76-110
Toluene-d8	24.1			25	96	84-111
4-BFB	2.48			2.5	99	64-121

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/18/2020
Date Analyzed: 07/18/2020
Instrument: GC16
Matrix: Water
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 202090
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-202090

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	47.1	45.7	40	118	114	32-138	3.00	20
tert-Amyl methyl ether (TAME)	3.82	3.82	4	95	96	62-119	0.152	20
Benzene	4.41	4.13	4	110	103	71-126	6.49	20
Bromobenzene	3.87	3.49	4	97	87	66-117	10.3	20
Bromochloromethane	3.84	3.67	4	96	92	67-124	4.63	20
Bromodichloromethane	3.96	3.76	4	99	94	63-119	5.36	20
Bromoform	3.47	3.41	4	87	85	46-117	1.83	20
Bromomethane	2.90	2.73	4	73	68	32-171	6.16	20
2-Butanone (MEK)	18.7	19.0	16	117	119	48-136	1.49	20
t-Butyl alcohol (TBA)	16.5	14.9	16	103	93	40-131	10.5	20
n-Butyl benzene	4.48	4.12	4	112	103	75-125	8.36	20
sec-Butyl benzene	4.18	3.73	4	105	93	72-120	11.3	20
tert-Butyl benzene	3.79	3.48	4	95	87	63-118	8.61	20
Carbon Disulfide	4.50	4.17	4	113	104	64-126	7.75	20
Carbon Tetrachloride	3.60	3.35	4	90	84	67-122	7.19	20
Chlorobenzene	4.06	3.76	4	102	94	71-117	7.81	20
Chloroethane	4.70	4.21	4	117	105	53-136	11.0	20
Chloroform	3.86	3.64	4	96	91	67-126	5.78	20
Chloromethane	5.82	5.10	4	146	127	42-148	13.3	20
2-Chlorotoluene	4.02	3.61	4	100	90	70-117	10.7	20
4-Chlorotoluene	3.99	3.66	4	100	91	67-117	8.57	20
Dibromochloromethane	3.68	3.49	4	92	87	52-120	5.45	20
1,2-Dibromo-3-chloropropane	1.68	1.57	2	84	79	38-128	6.65	20
1,2-Dibromoethane (EDB)	1.91	1.81	2	96	91	58-117	5.21	20
Dibromomethane	4.09	3.89	4	102	97	66-120	5.00	20
1,2-Dichlorobenzene	4.08	3.76	4	102	94	71-117	8.11	20
1,3-Dichlorobenzene	4.11	3.74	4	103	93	74-116	9.62	20
1,4-Dichlorobenzene	4.04	3.74	4	101	93	71-115	7.73	20
Dichlorodifluoromethane	4.70	4.19	4	118	105	29-145	11.6	20
1,1-Dichloroethane	4.32	4.06	4	108	102	68-128	6.24	20
1,2-Dichloroethane (1,2-DCA)	3.71	3.56	4	93	89	61-123	4.16	20
1,1-Dichloroethene	3.87	3.60	4	97	90	65-126	7.08	20
cis-1,2-Dichloroethene	4.19	3.89	4	105	97	71-122	7.29	20
trans-1,2-Dichloroethene	4.17	3.87	4	104	97	70-126	7.44	20
1,2-Dichloropropane	4.25	4.00	4	106	100	67-124	6.18	20
1,3-Dichloropropane	3.79	3.67	4	95	92	65-120	3.26	20
2,2-Dichloropropane	4.19	3.81	4	105	95	71-127	9.68	20
1,1-Dichloropropene	4.08	3.82	4	102	96	69-122	6.39	20

(Cont.)



Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/18/2020

Date Analyzed: 07/18/2020

Instrument: GC16

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 202090

Extraction Method: SW5030B

Analytical Method: SW8260B

Unit: µg/L

Sample ID: MB/LCS/LCSD-202090

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	3.84	3.63	4	96	91	63-119	5.49	20
trans-1,3-Dichloropropene	3.76	3.57	4	94	89	63-116	5.18	20
Diisopropyl ether (DIPE)	4.46	4.28	4	112	107	64-128	4.32	20
Ethylbenzene	4.08	3.66	4	102	91	69-120	10.9	20
Ethyl tert-butyl ether (ETBE)	3.95	3.94	4	99	99	63-120	0.101	20
Freon 113	3.92	3.66	4	98	92	67-126	6.90	20
Hexachlorobutadiene	3.26	2.93	4	82	73	50-140	10.6	20
Hexachloroethane	4.17	3.70	4	104	93	52-122	12.0	20
2-Hexanone	3.67	3.64	4	92	91	39-121	0.578	20
Isopropylbenzene	4.09	3.66	4	102	91	69-120	11.2	20
4-Isopropyl toluene	4.15	3.77	4	104	94	72-122	9.59	20
Methyl-t-butyl ether (MTBE)	3.71	3.77	4	93	94	60-121	1.53	20
Methylene chloride	4.09	3.77	4	102	94	40-148	8.22	20
4-Methyl-2-pentanone (MIBK)	3.57	3.57	4	89	89	48-115	0.00168	20
Naphthalene	3.87	3.62	4	97	90	62-124	6.89	20
n-Propyl benzene	3.93	3.61	4	98	90	70-118	8.50	20
Styrene	3.87	3.55	4	97	89	57-118	8.61	20
1,1,1,2-Tetrachloroethane	3.60	3.41	4	90	85	63-117	5.42	20
1,1,2,2-Tetrachloroethane	4.12	3.85	4	103	96	60-116	6.65	20
Tetrachloroethene	3.58	3.30	4	90	83	60-131	8.03	20
Toluene	3.92	3.61	4	98	90	67-115	8.32	20
1,2,3-Trichlorobenzene	3.67	3.27	4	92	82	60-128	11.5	20
1,2,4-Trichlorobenzene	3.43	3.10	4	86	78	61-133	10.0	20
1,1,1-Trichloroethane	3.83	3.59	4	96	90	67-124	6.40	20
1,1,2-Trichloroethane	3.72	3.53	4	93	88	62-117	5.03	20
Trichloroethene	3.90	3.60	4	97	90	69-120	7.87	20
Trichlorofluoromethane	3.79	3.53	4	95	88	60-134	7.18	20
1,2,3-Trichloropropane	1.90	1.78	2	95	89	56-120	6.81	20
1,2,4-Trimethylbenzene	4.16	3.85	4	104	96	67-124	7.87	20
1,3,5-Trimethylbenzene	4.20	3.84	4	105	96	69-122	9.16	20
Vinyl Chloride	2.41	2.17	2	120	109	52-145	10.4	20
m,p-Xylene	7.76	7.03	8	97	88	67-119	9.85	20
o-Xylene	4.02	3.65	4	100	91	68-120	9.52	20

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/18/2020

Date Analyzed: 07/18/2020

Instrument: GC16

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 202090

Extraction Method: SW5030B

Analytical Method: SW8260B

Unit: µg/L

Sample ID: MB/LCS/LCSD-202090

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	25.3	25.9	25	101	103	76-110	2.23	20
Toluene-d8	25.0	24.8	25	100	99	84-111	0.676	20
4-BFB	2.48	2.51	2.5	99	100	64-121	0.968	20



Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020 - 07/15/2020
Instrument: GC21
Matrix: Soil
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201664
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-201664

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
1,1-Biphenyl	ND	0.00280	0.0130	-	-	-
1,2,4-Trichlorobenzene	ND	0.0270	0.250	-	-	-
1,2-Dichlorobenzene	ND	0.0330	0.250	-	-	-
1,2-Diphenylhydrazine	ND	0.0280	0.250	-	-	-
1,3-Dichlorobenzene	ND	0.0350	0.250	-	-	-
1,4-Dichlorobenzene	ND	0.0330	0.250	-	-	-
1-Methylnaphthalene	ND	0.000420	0.00130	-	-	-
2,4,5-Trichlorophenol	ND	0.000760	0.00250	-	-	-
2,4,6-Trichlorophenol	ND	0.000820	0.00250	-	-	-
2,4-Dichlorophenol	ND	0.000690	0.00130	-	-	-
2,4-Dimethylphenol	ND	0.0570	0.250	-	-	-
2,4-Dinitrophenol	ND	0.150	0.250	-	-	-
2,4-Dinitrotoluene	ND	0.00250	0.0130	-	-	-
2,6-Dinitrotoluene	ND	0.00140	0.0130	-	-	-
2-Chloronaphthalene	ND	0.0270	0.250	-	-	-
2-Chlorophenol	ND	0.00210	0.0130	-	-	-
2-Methylnaphthalene	ND	0.000450	0.00130	-	-	-
2-Methylphenol (o-Cresol)	ND	0.0360	0.250	-	-	-
2-Nitroaniline	ND	0.170	1.20	-	-	-
2-Nitrophenol	ND	0.170	1.20	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.0420	0.250	-	-	-
3,3-Dichlorobenzidine	ND	0.00100	0.00250	-	-	-
3-Nitroaniline	ND	0.150	1.20	-	-	-
4,6-Dinitro-2-methylphenol	ND	0.190	1.20	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.0300	0.250	-	-	-
4-Chloro-3-methylphenol	ND	0.0310	0.250	-	-	-
4-Chloroaniline	ND	0.000390	0.00130	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.0500	0.250	-	-	-
4-Nitroaniline	ND	0.190	1.20	-	-	-
4-Nitrophenol	ND	0.420	1.20	-	-	-
Acenaphthene	ND	0.000530	0.00130	-	-	-
Acenaphthylene	ND	0.000370	0.00130	-	-	-
Acetochlor	ND	0.0290	0.250	-	-	-
Anthracene	ND	0.000950	0.00130	-	-	-
Benzidine	ND	0.120	1.20	-	-	-
Benzo (a) anthracene	ND	0.00400	0.0130	-	-	-
Benzo (a) pyrene	ND	0.000980	0.00250	-	-	-
Benzo (b) fluoranthene	ND	0.00140	0.00250	-	-	-

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020 - 07/15/2020
Instrument: GC21
Matrix: Soil
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201664
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-201664

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Benzo (g,h,i) perylene	ND	0.00120	0.00250	-	-	-
Benzo (k) fluoranthene	ND	0.00110	0.00250	-	-	-
Benzyl Alcohol	ND	0.560	1.20	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.0270	0.250	-	-	-
Bis (2-chloroethyl) Ether	ND	0.000570	0.00250	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.00360	0.0130	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.0480	0.250	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.00720	0.0250	-	-	-
Butylbenzyl Phthalate	ND	0.00430	0.0250	-	-	-
Chrysene	ND	0.00130	0.00250	-	-	-
Dibenzo (a,h) anthracene	ND	0.00140	0.00250	-	-	-
Dibenzofuran	ND	0.0290	0.250	-	-	-
Diethyl Phthalate	ND	0.00470	0.0130	-	-	-
Dimethyl Phthalate	ND	0.00110	0.00250	-	-	-
Di-n-butyl Phthalate	ND	0.00380	0.0130	-	-	-
Di-n-octyl Phthalate	ND	0.00660	0.0130	-	-	-
Fluoranthene	ND	0.000910	0.00250	-	-	-
Fluorene	ND	0.00120	0.00250	-	-	-
Hexachlorobenzene	ND	0.00120	0.00250	-	-	-
Hexachlorobutadiene	ND	0.000230	0.00130	-	-	-
Hexachlorocyclopentadiene	ND	0.240	2.00	-	-	-
Hexachloroethane	ND	0.00170	0.0130	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.00300	0.0130	-	-	-
Isophorone	ND	0.0480	0.250	-	-	-
Naphthalene	ND	0.000280	0.00130	-	-	-
Nitrobenzene	ND	0.0490	0.250	-	-	-
N-Nitrosodimethylamine	ND	0.180	1.20	-	-	-
N-Nitrosodi-n-propylamine	ND	0.0640	0.250	-	-	-
N-Nitrosodiphenylamine	ND	0.0240	0.250	-	-	-
Pentachlorophenol	ND	0.00600	0.0620	-	-	-
Phenanthrene	ND	0.00110	0.00500	-	-	-
Phenol	ND	0.00680	0.0500	-	-	-
Pyrene	ND	0.000830	0.00250	-	-	-
Pyridine	ND	0.0610	0.250	-	-	-

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/13/2020

Date Analyzed: 07/14/2020 - 07/15/2020

Instrument: GC21

Matrix: Soil

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 201664

Extraction Method: SW3550B

Analytical Method: SW8270C

Unit: mg/Kg

Sample ID: MB/LCS/LCSD-201664

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	1.16			1.25	93	70-130
Phenol-d5	1.05			1.25	84	70-130
Nitrobenzene-d5	0.949			1.25	76	60-130
2-Fluorobiphenyl	0.994			1.25	80	60-130
2,4,6-Tribromophenol	0.761			1.25	61	60-130
4-Terphenyl-d14	1.28			1.25	103	60-130

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020 - 07/15/2020
Instrument: GC21
Matrix: Soil
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201664
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-201664

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
1,1-Biphenyl	0.110	0.112	0.12	88	90	60-130	1.50	30
1,2,4-Trichlorobenzene	2.28	2.29	2.5	91	92	60-130	0.360	30
1,2-Dichlorobenzene	2.25	2.28	2.5	90	91	60-130	1.72	30
1,2-Diphenylhydrazine	2.43	2.38	2.5	97	95	60-130	2.13	30
1,3-Dichlorobenzene	2.28	2.30	2.5	91	92	60-130	0.587	30
1,4-Dichlorobenzene	2.12	2.13	2.5	85	85	60-130	0.368	30
1-Methylnaphthalene	0.109	0.107	0.12	87	85	70-130	2.33	30
2,4,5-Trichlorophenol	0.102	0.106	0.12	82	85	60-130	3.98	30
2,4,6-Trichlorophenol	0.102	0.103	0.12	82	82	60-130	0.186	30
2,4-Dichlorophenol	0.117	0.116	0.12	94	93	60-130	1.17	30
2,4-Dimethylphenol	2.49	2.48	2.5	100	99	70-130	0.653	30
2,4-Dinitrophenol	0.339	0.347	2.5	14,F2	14,F2	15-130	2.30	30
2,4-Dinitrotoluene	0.100	0.101	0.12	80	81	70-130	0.664	30
2,6-Dinitrotoluene	0.101	0.103	0.12	80	83	60-130	2.57	30
2-Chloronaphthalene	2.42	2.49	2.5	97	100	60-130	3.14	30
2-Chlorophenol	0.113	0.114	0.12	91	91	60-130	0.650	30
2-Methylnaphthalene	0.117	0.116	0.12	94	93	70-130	1.29	30
2-Methylphenol (o-Cresol)	2.14	2.17	2.5	85	87	60-130	1.74	30
2-Nitroaniline	9.76	9.90	12.5	78	79	70-130	1.36	30
2-Nitrophenol	10.6	10.6	12.5	85	85	70-130	0.258	30
3 & 4-Methylphenol (m,p-Cresol)	2.31	2.31	2.5	93	93	60-130	0.0713	30
3,3-Dichlorobenzidine	0.0756	0.0781	0.12	60	62	40-130	3.21	30
3-Nitroaniline	7.90	8.25	12.5	63	66	50-130	4.34	30
4,6-Dinitro-2-methylphenol	5.01	5.00	12.5	40	40	20-130	0.256	30
4-Bromophenyl Phenyl Ether	2.55	2.50	2.5	102	100	60-130	2.01	30
4-Chloro-3-methylphenol	2.60	2.57	2.5	104	103	70-130	0.852	30
4-Chloroaniline	0.0662	0.0675	0.12	53	54	40-130	1.90	30
4-Chlorophenyl Phenyl Ether	2.22	2.30	2.5	89	92	70-130	3.45	30
4-Nitroaniline	7.99	8.16	12.5	64	65	60-130	2.15	30
4-Nitrophenol	9.14	10.0	12.5	73	80	60-130	9.32	30
Acenaphthene	0.100	0.101	0.12	80	81	60-130	0.791	30
Acenaphthylene	0.103	0.104	0.12	82	84	60-130	1.39	30
Acetochlor	2.06	2.08	2.5	82	83	60-130	0.993	30
Anthracene	0.110	0.108	0.12	88	87	60-130	1.49	30
Benzidine	2.98	2.86	12.5	24	23	20-130	3.95	30
Benzo (a) anthracene	0.117	0.117	0.12	94	94	70-130	0.191	30
Benzo (a) pyrene	0.127	0.128	0.12	101	102	70-130	1.03	30
Benzo (b) fluoranthene	0.126	0.124	0.12	101	99	60-130	1.83	30

(Cont.)



Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020 - 07/15/2020
Instrument: GC21
Matrix: Soil
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201664
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-201664

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzo (g,h,i) perylene	0.115	0.113	0.12	92	90	70-130	1.93	30
Benzo (k) fluoranthene	0.143	0.140	0.12	114	112	70-130	2.20	30
Benzyl Alcohol	8.83	8.74	12.5	71	70	70-130	0.946	30
Bis (2-chloroethoxy) Methane	1.86	1.80	2.5	74	72	70-130	3.48	30
Bis (2-chloroethyl) Ether	0.106	0.107	0.12	85	86	60-130	1.04	30
Bis (2-chloroisopropyl) Ether	0.107	0.108	0.12	86	86	60-130	0.787	30
Bis (2-ethylhexyl) Adipate	2.26	2.12	2.5	90	85	60-130	6.27	30
Bis (2-ethylhexyl) Phthalate	0.119	0.118	0.12	95	94	60-130	0.736	30
Butylbenzyl Phthalate	0.121	0.117	0.12	97	94	60-130	2.88	30
Chrysene	0.121	0.119	0.12	97	95	70-130	1.93	30
Dibenzo (a,h) anthracene	0.116	0.113	0.12	93	90	70-130	3.21	30
Dibenzofuran	2.01	2.01	2.5	80	80	60-130	0.115	30
Diethyl Phthalate	0.105	0.103	0.12	84	83	70-130	1.26	30
Dimethyl Phthalate	0.104	0.105	0.12	83	84	70-130	0.912	30
Di-n-butyl Phthalate	0.120	0.115	0.12	96	92	60-130	3.80	30
Di-n-octyl Phthalate	0.126	0.123	0.12	101	99	60-130	2.30	30
Fluoranthene	0.118	0.116	0.12	94	93	70-130	1.39	30
Fluorene	0.110	0.113	0.12	88	90	60-130	2.33	30
Hexachlorobenzene	0.0989	0.0957	0.12	79	77	70-130	3.31	30
Hexachlorobutadiene	0.106	0.105	0.12	84	84	70-130	0.210	30
Hexachlorocyclopentadiene	7.56	7.70	12.5	60	62	60-130	1.82	30
Hexachloroethane	0.114	0.116	0.12	92	93	70-130	1.53	30
Indeno (1,2,3-cd) pyrene	0.111	0.110	0.12	89	88	70-130	1.45	30
Isophorone	2.11	2.05	2.5	84	82	60-130	2.95	30
Naphthalene	0.108	0.107	0.12	86	85	70-130	1.17	30
Nitrobenzene	1.94	2.01	2.5	78	80	60-130	3.60	30
N-Nitrosodi-n-propylamine	1.99	1.91	2.5	80	76	60-130	4.14	30
N-Nitrosodiphenylamine	2.05	2.01	2.5	82	80	70-130	2.15	30
Pentachlorophenol	0.414	0.407	0.62	66	65	50-130	1.83	30
Phenanthrene	0.104	0.103	0.12	83	82	60-130	1.74	30
Phenol	0.388	0.388	0.50	78	78	60-130	0.0619	30
Pyrene	0.114	0.110	0.12	92	88	70-130	3.46	30
Pyridine	1.19	1.23	2.5	48,F2	49,F2	60-130	3.47	30

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020 - 07/15/2020
Instrument: GC21
Matrix: Soil
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201664
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-201664

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	1.02	1.03	1.25	82	82	70-130	0.504	30
Phenol-d5	0.986	1.00	1.25	79	80	70-130	1.55	30
Nitrobenzene-d5	1.03	1.03	1.25	82	82	60-130	0.158	30
2-Fluorobiphenyl	1.06	1.09	1.25	85	87	60-130	2.72	30
2,4,6-Tribromophenol	0.871	0.855	1.25	70	68	60-130	1.81	30
4-Terphenyl-d14	1.07	1.03	1.25	85	82	60-130	3.91	30



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/13/2020

Date Analyzed: 07/14/2020 - 07/15/2020

Instrument: GC21

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 201688

Extraction Method: E625

Analytical Method: SW8270C

Unit: µg/L

Sample ID: MB/LCS/LCSD-201688

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
1,1-Biphenyl	ND	0.00990	0.0500	-	-	-
1,2,4-Trichlorobenzene	ND	0.0750	1.00	-	-	-
1,2-Dichlorobenzene	ND	0.480	1.00	-	-	-
1,2-Diphenylhydrazine	ND	0.130	1.00	-	-	-
1,3-Dichlorobenzene	ND	0.240	1.00	-	-	-
1,4-Dichlorobenzene	ND	0.340	1.00	-	-	-
1-Methylnaphthalene	ND	0.00140	0.00500	-	-	-
2,4,5-Trichlorophenol	ND	0.00200	0.0100	-	-	-
2,4,6-Trichlorophenol	ND	0.00350	0.0100	-	-	-
2,4-Dichlorophenol	ND	0.00290	0.0100	-	-	-
2,4-Dimethylphenol	ND	0.140	1.00	-	-	-
2,4-Dinitrophenol	ND	0.550	2.00	-	-	-
2,4-Dinitrotoluene	ND	0.0120	0.0500	-	-	-
2,6-Dichlorophenol	ND	0.00930	0.0500	-	-	-
2,6-Dinitrotoluene	ND	0.00480	0.0500	-	-	-
2-Chloronaphthalene	ND	0.0640	1.00	-	-	-
2-Chlorophenol	ND	0.00770	0.0500	-	-	-
2-Methylnaphthalene	ND	0.00180	0.0100	-	-	-
2-Methylphenol (o-Cresol)	ND	0.320	1.00	-	-	-
2-Nitroaniline	ND	0.310	5.00	-	-	-
2-Nitrophenol	ND	0.550	5.00	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.420	1.00	-	-	-
3,3-Dichlorobenzidine	ND	0.00290	0.0200	-	-	-
3-Nitroaniline	ND	0.660	5.00	-	-	-
4,6-Dinitro-2-methylphenol	ND	1.00	5.00	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.0850	1.00	-	-	-
4-Chloro-3-methylphenol	ND	0.150	1.00	-	-	-
4-Chloroaniline	ND	0.00210	0.00500	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.110	1.00	-	-	-
4-Nitroaniline	ND	1.30	5.00	-	-	-
4-Nitrophenol	ND	1.60	5.00	-	-	-
Acenaphthene	ND	0.00280	0.00500	-	-	-
Acenaphthylene	ND	0.00170	0.00500	-	-	-
Acetochlor	ND	0.140	1.00	-	-	-
Anthracene	ND	0.00440	0.0100	-	-	-
Benzidine	ND	0.580	5.00	-	-	-
Benzo (a) anthracene	ND	0.0190	0.0500	-	-	-
Benzo (a) pyrene	ND	0.00440	0.0100	-	-	-

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/13/2020

Date Analyzed: 07/14/2020 - 07/15/2020

Instrument: GC21

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 201688

Extraction Method: E625

Analytical Method: SW8270C

Unit: µg/L

Sample ID: MB/LCS/LCSD-201688

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Benzo (b) fluoranthene	ND	0.00500	0.0200	-	-	-
Benzo (g,h,i) perylene	ND	0.00830	0.0200	-	-	-
Benzo (k) fluoranthene	ND	0.00520	0.0100	-	-	-
Benzoic Acid	ND	3.00	5.00	-	-	-
Benzyl Alcohol	ND	3.00	5.00	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.180	1.00	-	-	-
Bis (2-chloroethyl) Ether	ND	0.00260	0.0100	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.0160	0.0500	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.110	1.00	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.0970	0.200	-	-	-
Butylbenzyl Phthalate	ND	0.0430	0.0500	-	-	-
Chrysene	ND	0.00880	0.0100	-	-	-
Dibenzo (a,h) anthracene	ND	0.00830	0.0100	-	-	-
Dibenzofuran	ND	0.0530	1.00	-	-	-
Diethyl Phthalate	ND	0.0190	0.0500	-	-	-
Dimethyl Phthalate	ND	0.00480	0.0100	-	-	-
Di-n-butyl Phthalate	ND	0.0140	0.0500	-	-	-
Di-n-octyl Phthalate	ND	0.0170	0.0500	-	-	-
Fluoranthene	ND	0.00430	0.0100	-	-	-
Fluorene	ND	0.00450	0.0100	-	-	-
Hexachlorobenzene	ND	0.000730	0.00500	-	-	-
Hexachlorobutadiene	ND	0.000910	0.0100	-	-	-
Hexachlorocyclopentadiene	ND	0.850	5.00	-	-	-
Hexachloroethane	ND	0.00720	0.0500	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.00780	0.0200	-	-	-
Isophorone	ND	0.180	1.00	-	-	-
Naphthalene	ND	0.00550	0.0500	-	-	-
Nitrobenzene	ND	0.130	1.00	-	-	-
N-Nitrosodimethylamine	ND	0.740	5.00	-	-	-
N-Nitrosodi-n-propylamine	ND	0.320	1.00	-	-	-
N-Nitrosodiphenylamine	ND	0.0900	1.00	-	-	-
Pentachlorophenol	ND	0.0500	0.250	-	-	-
Phenanthrene	ND	0.00740	0.0200	-	-	-
Phenol	ND	0.0200	0.200	-	-	-
Pyrene	ND	0.00420	0.0100	-	-	-
Pyridine	ND	0.160	1.00	-	-	-

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/13/2020

Date Analyzed: 07/14/2020 - 07/15/2020

Instrument: GC21

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 201688

Extraction Method: E625

Analytical Method: SW8270C

Unit: µg/L

Sample ID: MB/LCS/LCSD-201688

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	4.17			5	83	50-130
Phenol-d5	4.20			5	84	60-130
Nitrobenzene-d5	3.76			5	75	60-130
2-Fluorobiphenyl	4.06			5	81	60-130
2,4,6-Tribromophenol	4.94			5	99	60-130
4-Terphenyl-d14	3.90			5	78	70-130

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020 - 07/15/2020
Instrument: GC21
Matrix: Water
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201688
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS/LCSD-201688

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
1,1-Biphenyl	0.454	0.409	0.50	91	82	60-130	10.4	25
1,2,4-Trichlorobenzene	8.76	8.65	10	88	86	70-130	1.29	25
1,2-Dichlorobenzene	8.70	8.92	10	87	89	60-130	2.50	25
1,2-Diphenylhydrazine	9.92	9.28	10	99	93	70-130	6.73	25
1,3-Dichlorobenzene	8.90	9.01	10	89	90	60-130	1.26	25
1,4-Dichlorobenzene	8.03	8.15	10	80	82	60-130	1.48	25
1-Methylnaphthalene	0.451	0.419	0.50	90	84	70-130	7.38	25
2,4,5-Trichlorophenol	0.434	0.401	0.50	87	80	70-130	7.73	25
2,4,6-Trichlorophenol	0.430	0.394	0.50	86	79	70-130	8.89	25
2,4-Dichlorophenol	0.472	0.450	0.50	94	90	70-130	4.67	25
2,4-Dimethylphenol	10.1	9.42	10	101	94	70-130	7.13	25
2,4-Dinitrophenol	4.90	5.12	10	49,F2	51,F2	60-130	4.35	25
2,4-Dinitrotoluene	0.458	0.407	0.50	92	81	70-130	11.6	25
2,6-Dichlorophenol	0.508	0.478	0.50	102	96	70-130	6.17	25
2,6-Dinitrotoluene	0.445	0.394	0.50	89	79	70-130	12.0	25
2-Chloronaphthalene	9.65	8.88	10	96	89	70-130	8.34	25
2-Chlorophenol	0.398	0.413	0.50	80	83	60-130	3.75	25
2-Methylnaphthalene	0.488	0.442	0.50	98	88	60-130	9.93	25
2-Methylphenol (o-Cresol)	9.30	9.01	10	93	90	70-130	3.23	25
2-Nitroaniline	44.1	38.4	50	88	77	70-130	13.6	25
2-Nitrophenol	44.5	41.7	50	89	83	70-130	6.57	25
3 & 4-Methylphenol (m,p-Cresol)	9.91	9.84	10	99	98	70-130	0.729	25
3,3-Dichlorobenzidine	0.437	0.417	0.50	87	83	70-130	4.76	25
3-Nitroaniline	46.2	40.5	50	92	81	70-130	13.1	25
4,6-Dinitro-2-methylphenol	34.4	36.0	50	69,F2	72	70-130	4.68	25
4-Bromophenyl Phenyl Ether	10.1	9.50	10	101	95	70-130	6.51	25
4-Chloro-3-methylphenol	11.0	10.1	10	110	101	70-130	8.55	25
4-Chloroaniline	0.452	0.425	0.50	90	85	70-130	6.12	25
4-Chlorophenyl Phenyl Ether	10.1	8.75	10	101	87	70-130	14.6	25
4-Nitroaniline	41.0	36.0	50	82	72	70-130	12.8	25
4-Nitrophenol	48.7	41.6	50	97	83	50-130	15.7	25
Acenaphthene	0.424	0.372	0.50	85	74	70-130	13.0	25
Acenaphthylene	0.448	0.400	0.50	90	80	60-130	11.3	25
Acetochlor	9.19	8.66	10	92	87	70-130	5.90	25
Anthracene	0.454	0.415	0.50	91	83	70-130	9.03	25
Benzidine	34.5	33.8	50	69	68	50-130	2.15	25
Benzo (a) anthracene	0.491	0.455	0.50	98	91	60-130	7.50	25
Benzo (a) pyrene	0.504	0.472	0.50	101	94	70-130	6.52	25

(Cont.)



Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020 - 07/15/2020
Instrument: GC21
Matrix: Water
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201688
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS/LCSD-201688

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzo (b) fluoranthene	0.522	0.485	0.50	104	97	60-130	7.33	25
Benzo (g,h,i) perylene	0.481	0.461	0.50	96	92	70-130	4.36	25
Benzo (k) fluoranthene	0.579	0.537	0.50	116	107	70-130	7.44	25
Benzoic Acid	40.8	41.1	50	82	82	50-130	0.765	25
Benzyl Alcohol	37.2	36.5	50	74	73	70-130	2.04	25
Bis (2-chloroethoxy) Methane	7.87	7.20	10	79	72	70-130	8.90	25
Bis (2-chloroethyl) Ether	0.431	0.433	0.50	86	87	60-130	0.591	25
Bis (2-chloroisopropyl) Ether	0.424	0.412	0.50	85	83	60-130	2.70	25
Bis (2-ethylhexyl) Adipate	9.28	8.86	10	93	89	60-130	4.70	25
Bis (2-ethylhexyl) Phthalate	0.479	0.452	0.50	96	90	60-130	5.63	25
Butylbenzyl Phthalate	0.462	0.436	0.50	92	87	60-130	5.79	25
Chrysene	0.474	0.442	0.50	95	88	70-130	7.03	25
Dibenzo (a,h) anthracene	0.459	0.430	0.50	92	86	70-130	6.58	25
Dibenzofuran	8.78	7.76	10	88	78	70-130	12.3	25
Diethyl Phthalate	0.462	0.400	0.50	92	80	70-130	14.5	25
Dimethyl Phthalate	0.467	0.405	0.50	93	81	70-130	14.0	25
Di-n-butyl Phthalate	0.501	0.458	0.50	100	92	70-130	8.92	25
Di-n-octyl Phthalate	0.491	0.467	0.50	98	93	70-130	4.85	25
Fluoranthene	0.476	0.443	0.50	95	89	70-130	7.21	25
Fluorene	0.457	0.402	0.50	91	80	70-130	12.7	25
Hexachlorobenzene	0.418	0.388	0.50	84	78	60-130	7.42	25
Hexachlorobutadiene	0.409	0.394	0.50	82	79	60-130	3.84	25
Hexachlorocyclopentadiene	35.6	33.2	50	71	66	60-130	6.90	25
Hexachloroethane	0.447	0.450	0.50	89	90	60-130	0.669	25
Indeno (1,2,3-cd) pyrene	0.470	0.433	0.50	94	87	70-130	8.22	25
Isophorone	9.14	8.59	10	91	86	70-130	6.28	25
Naphthalene	0.426	0.402	0.50	85	80	50-130	5.76	25
Nitrobenzene	8.06	7.67	10	81	77	70-130	4.93	25
N-Nitrosodi-n-propylamine	8.24	7.79	10	82	78	60-130	5.62	25
N-Nitrosodiphenylamine	8.47	8.01	10	85	80	70-130	5.58	25
Pentachlorophenol	1.93	1.79	2.5	77	72	60-130	7.08	25
Phenanthrene	0.434	0.400	0.50	87	80	70-130	8.08	25
Phenol	1.49	1.50	2	75	75	60-130	0.721	25
Pyrene	0.484	0.442	0.50	97	88	70-130	9.12	25
Pyridine	7.72	7.24	10	77	72	50-130	6.45	25

(Cont.)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020 - 07/15/2020
Instrument: GC21
Matrix: Water
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201688
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS/LCSD-201688

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	3.23	3.69	5	65	74	50-130	13.3	25
Phenol-d5	3.72	4.04	5	74	81	60-130	8.46	25
Nitrobenzene-d5	3.89	4.13	5	78	83	60-130	5.88	25
2-Fluorobiphenyl	4.23	4.23	5	85	85	60-130	0.0070	25
2,4,6-Tribromophenol	3.82	3.76	5	76	75	60-130	1.41	25
4-Terphenyl-d14	4.21	4.32	5	84	86	70-130	2.49	25



Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/13/2020

Date Analyzed: 07/15/2020 - 07/16/2020

Instrument: ICP-MS2, ICP-MS4

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 201678

Extraction Method: E200.8

Analytical Method: E200.8

Unit: µg/L

Sample ID: MB/LCS/LCSD-201678
2007558-003DMS/MSD

QC Summary Report for Dissolved Metals

Analyte	MDL	RL	MB Result	SPK Val	MDL	RL	Analyte
Antimony	0.0600	0.500	ND	50	0.0600	0.500	Antimony
Arsenic	0.190	0.500	ND	50	0.190	0.500	Arsenic
Barium	1.00	5.00	ND	50	1.00	5.00	Barium
Beryllium	0.0500	0.500	ND	50	0.0500	0.500	Beryllium
Cadmium	0.0400	0.250	ND	50	0.0400	0.250	Cadmium
Chromium	0.140	0.500	ND	50	0.140	0.500	Chromium
Cobalt	0.0500	0.500	ND	50	0.0500	0.500	Cobalt
Copper	0.100	0.500	ND	50	0.100	0.500	Copper
Lead	0.0800	0.500	ND	50	0.0800	0.500	Lead
Mercury	0.0100	0.0500	0.0340,J	50	0.0100	0.0500	Mercury
Molybdenum	0.260	0.500	ND	50	0.260	0.500	Molybdenum
Nickel	0.180	0.500	ND	50	0.180	0.500	Nickel
Selenium	0.150	0.500	ND	50	0.150	0.500	Selenium
Silver	0.0250	0.190	ND	50	0.0250	0.190	Silver
Thallium	0.0260	0.500	ND	50	0.0260	0.500	Thallium
Vanadium	0.0600	0.500	ND	50	0.0600	0.500	Vanadium
Zinc	5.00	15.0	ND	50	5.00	15.0	Zinc

Analyte	MDL	RL	MB Result	SPK Val	MDL	RL	Analyte
Antimony	0.0600	0.500	ND	50	0.0600	0.500	Antimony
Arsenic	0.190	0.500	ND	50	0.190	0.500	Arsenic
Barium	1.00	5.00	ND	50	1.00	5.00	Barium
Beryllium	0.0500	0.500	ND	50	0.0500	0.500	Beryllium
Cadmium	0.0400	0.250	ND	50	0.0400	0.250	Cadmium
Chromium	0.140	0.500	ND	50	0.140	0.500	Chromium
Cobalt	0.0500	0.500	ND	50	0.0500	0.500	Cobalt
Copper	0.100	0.500	ND	50	0.100	0.500	Copper
Lead	0.0800	0.500	ND	50	0.0800	0.500	Lead
Mercury	0.0100	0.0500	0.0340,J	50	0.0100	0.0500	Mercury
Molybdenum	0.260	0.500	ND	50	0.260	0.500	Molybdenum
Nickel	0.180	0.500	ND	50	0.180	0.500	Nickel
Selenium	0.150	0.500	ND	50	0.150	0.500	Selenium
Silver	0.0250	0.190	ND	50	0.0250	0.190	Silver

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/15/2020 - 07/16/2020
Instrument: ICP-MS2, ICP-MS4
Matrix: Water
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201678
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L
Sample ID: MB/LCS/LCSD-201678
2007558-003DMS/MSD

QC Summary Report for Dissolved Metals

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	46.4	46.4	50	93	93	85-115	0.0647	20
Arsenic	46.9	47.3	50	94	95	85-115	0.998	20
Barium	471	475	500	94	95	85-115	0.761	20
Beryllium	44.6	45.2	50	89	90	85-115	1.45	20
Cadmium	44.4	43.7	50	89	87	85-115	1.68	20
Chromium	46.6	46.2	50	93	92	85-115	0.797	20
Cobalt	48.0	48.2	50	96	96	85-115	0.478	20
Copper	46.5	46.7	50	93	93	85-115	0.343	20
Lead	46.6	46.2	50	93	92	85-115	1.01	20
Mercury	1.18	1.20	1.25	94	96	85-115	1.60	20
Molybdenum	47.5	47.0	50	95	94	85-115	1.10	20
Nickel	47.1	47.5	50	94	95	85-115	0.846	20
Selenium	45.6	45.8	50	91	92	85-115	0.482	20
Silver	45.2	45.7	50	90	91	85-115	1.08	20
Thallium	46.5	46.2	50	93	92	85-115	0.518	20
Vanadium	46.9	46.6	50	94	93	85-115	0.684	20
Zinc	462	462	500	92	92	85-115	0.173	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	10	45.2	50.5	50	ND<5.0	89	100	70-130	11.1	20
Arsenic	10	53.6	54.6	50	ND<5.0	98	100	70-130	1.83	20
Barium	10	509	568	500	81.71	85	97	70-130	11.0	20
Beryllium	10	40.3	47.8	50	ND<5.0	81	96	70-130	16.9	20
Cadmium	10	47.6	47.3	50	ND<2.5	95	95	70-130	0.590	20
Chromium	10	48.7	49.1	50	ND<5.0	97	98	70-130	0.839	20
Cobalt	10	44.4	50.6	50	ND<5.0	86	98	70-130	13.0	20
Copper	10	53.1	53.1	50	ND<5.0	97	98	70-130	0.0753	20
Lead	10	44.7	49.3	50	ND<5.0	89	99	70-130	9.81	20
Mercury	10	1.30	1.23	1.25	ND<0.50	94	89	70-130	5.61	20
Molybdenum	10	109	124	50	72.51	72	102	70-130	12.8	20
Nickel	10	53.2	53.7	50	5.931	94	95	70-130	0.992	20
Selenium	10	54.0	53.7	50	ND<5.0	99	99	70-130	0.483	20
Silver	10	44.4	47.0	50	ND<1.9	89	94	70-130	5.66	20

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/13/2020

Date Analyzed: 07/15/2020 - 07/16/2020

Instrument: ICP-MS2, ICP-MS4

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 201678

Extraction Method: E200.8

Analytical Method: E200.8

Unit: µg/L

Sample ID: MB/LCS/LCSD-201678
2007558-003DMS/MSD

QC Summary Report for Dissolved Metals

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Thallium	10	44.8	49.3	50	ND<5.0	90	99	70-130	9.52	20
Vanadium	10	75.2	76.6	50	25.66	99	102	70-130	1.87	20
Zinc	10	486	485	500	ND<150	97	97	70-130	0.206	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	ND<25.0	ND<5.0	-	-
Arsenic	ND<25.0	ND<5.0	-	-
Barium	ND<250	81.71	-	-
Beryllium	ND<25.0	ND<5.0	-	-
Cadmium	ND<12.0	ND<2.5	-	-
Chromium	ND<25.0	ND<5.0	-	-
Cobalt	ND<25.0	ND<5.0	-	-
Copper	ND<25.0	ND<5.0	-	-
Lead	ND<25.0	ND<5.0	-	-
Mercury	ND<2.50	ND<0.50	-	-
Molybdenum	72.3	72.51	0.290	20
Nickel	ND<25.0	5.931	-	-
Selenium	ND<25.0	ND<5.0	-	-
Silver	ND<9.50	ND<1.9	-	-
Thallium	ND<25.0	ND<5.0	-	-
Vanadium	26.4	25.66	2.88	20
Zinc	ND<750	ND<150	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/13/2020 - 07/14/2020
Instrument: ICP-MS5
Matrix: Soil
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201650
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-201650

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.160	0.500	-	-	-
Arsenic	ND	0.150	0.500	-	-	-
Barium	ND	0.570	5.00	-	-	-
Beryllium	ND	0.0730	0.500	-	-	-
Cadmium	0.0630,J	0.0610	0.500	-	-	-
Chromium	ND	0.130	0.500	-	-	-
Cobalt	ND	0.0520	0.500	-	-	-
Copper	ND	0.180	0.500	-	-	-
Lead	ND	0.140	0.500	-	-	-
Mercury	ND	0.0320	0.0500	-	-	-
Molybdenum	ND	0.160	0.500	-	-	-
Nickel	ND	0.170	0.500	-	-	-
Selenium	ND	0.150	0.500	-	-	-
Silver	ND	0.120	0.500	-	-	-
Thallium	ND	0.0670	0.500	-	-	-
Vanadium	ND	0.130	0.500	-	-	-
Zinc	ND	3.00	5.00	-	-	-
Surrogate Recovery						
Terbium	499			500	100	70-130

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/13/2020

Date Analyzed: 07/13/2020 - 07/14/2020

Instrument: ICP-MS5

Matrix: Soil

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 201650

Extraction Method: SW3050B

Analytical Method: SW6020

Unit: mg/Kg

Sample ID: MB/LCS/LCSD-201650

QC Summary Report for Metals

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	49.6	53.4	50	99	107	75-125	7.36	20
Arsenic	49.6	51.6	50	99	103	75-125	3.98	20
Barium	478	510	500	96	102	75-125	6.41	20
Beryllium	48.4	51.7	50	97	103	75-125	6.48	20
Cadmium	50.0	52.6	50	100	105	75-125	5.07	20
Chromium	49.5	50.8	50	99	102	75-125	2.60	20
Cobalt	50.4	53.8	50	101	108	75-125	6.44	20
Copper	50.4	52.8	50	101	106	75-125	4.58	20
Lead	48.5	51.4	50	97	103	75-125	5.79	20
Mercury	1.19	1.26	1.25	95	101	75-125	5.88	20
Molybdenum	48.9	51.2	50	98	102	75-125	4.63	20
Nickel	49.8	51.9	50	100	104	75-125	4.21	20
Selenium	49.8	52.1	50	100	104	75-125	4.48	20
Silver	46.5	50.6	50	93	101	75-125	8.39	20
Thallium	48.8	51.2	50	98	102	75-125	4.96	20
Vanadium	49.2	51.2	50	98	102	75-125	4.05	20
Zinc	501	521	500	100	104	75-125	3.83	20
Surrogate Recovery								
Terbium	508	539	500	102	108	70-130	5.92	20



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/13/2020 - 07/14/2020
Instrument: GC19, GC7
Matrix: Soil
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201655
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-201655

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.700	1.00	-	-	-
MTBE	ND	0.00400	0.0500	-	-	-
Benzene	ND	0.00300	0.00500	-	-	-
Toluene	ND	0.00200	0.00500	-	-	-
Ethylbenzene	ND	0.00220	0.00500	-	-	-
m,p-Xylene	ND	0.00300	0.0100	-	-	-
o-Xylene	ND	0.00100	0.00500	-	-	-

Surrogate Recovery

2-Fluorotoluene	0.0978			0.1	98	75-134
-----------------	--------	--	--	-----	----	--------

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.590	0.535	0.60	98	89	82-118	9.72	20
MTBE	0.0899	0.0937	0.10	90	94	61-119	4.22	20
Benzene	0.101	0.105	0.10	101	105	77-128	4.02	20
Toluene	0.102	0.104	0.10	102	104	74-132	2.01	20
Ethylbenzene	0.103	0.106	0.10	103	106	84-127	2.44	20
m,p-Xylene	0.216	0.219	0.20	108	109	80-120	1.31	20
o-Xylene	0.107	0.107	0.10	107	107	80-120	0.0242	20

Surrogate Recovery

2-Fluorotoluene	0.0966	0.0996	0.10	97	100	75-134	3.08	20
-----------------	--------	--------	------	----	-----	--------	------	----

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/13/2020

Date Analyzed: 07/14/2020

Instrument: GC19, GC7

Matrix: Soil

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 201675

Extraction Method: SW5035

Analytical Method: SW8021B/8015Bm

Unit: mg/Kg

Sample ID: MB/LCS/LCSD-201675
2007558-013AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MDL	RL	SPK	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	0.700	1.00	-	-	-
MTBE	0.00400	0.0500	-	-	-
Benzene	0.00300	0.00500	-	-	-
Toluene	0.00200	0.00500	-	-	-
Ethylbenzene	0.00220	0.00500	-	-	-
m,p-Xylene	0.00300	0.0100	-	-	-
o-Xylene	0.00100	0.00500	-	-	-

Surrogate Recovery

2-Fluorotoluene	0.0941	0.1	94	75-134
-----------------	--------	-----	----	--------

Analyte	MDL	RL	SPK	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	0.700	1.00	-	-	-
MTBE	0.00400	0.0500	-	-	-
Benzene	0.00300	0.00500	-	-	-
Toluene	0.00200	0.00500	-	-	-
Ethylbenzene	0.00220	0.00500	-	-	-
m,p-Xylene	0.00300	0.0100	-	-	-
o-Xylene	0.00100	0.00500	-	-	-

2-Fluorotoluene	0.0941	0.1	94	75-134
-----------------	--------	-----	----	--------

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/14/2020
Instrument: GC19, GC7
Matrix: Soil
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201675
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-201675
2007558-013AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.546	0.508	0.60	91	85	82-118	7.17	20
MTBE	0.0938	0.0928	0.10	94	93	61-119	1.06	20
Benzene	0.0996	0.101	0.10	100	101	77-128	1.29	20
Toluene	0.101	0.102	0.10	101	102	74-132	0.816	20
Ethylbenzene	0.0995	0.102	0.10	100	102	84-127	2.18	20
m,p-Xylene	0.205	0.209	0.20	102	105	80-120	2.05	20
o-Xylene	0.101	0.103	0.10	101	103	80-120	1.99	20

Surrogate Recovery

2-Fluorotoluene	0.0965	0.0975	0.10	97	97	75-134	0.962	20
-----------------	--------	--------	------	----	----	--------	-------	----

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	1	0.575	0.582	0.60	ND	96	97	58-129	1.28	20
MTBE	1	0.0962	0.0990	0.10	ND	96	99	47-118	2.87	20
Benzene	1	0.0864	0.0934	0.10	ND	86	93	55-129	7.72	20
Toluene	1	0.0937	0.0986	0.10	ND	94	99	56-130	5.13	20
Ethylbenzene	1	0.0954	0.0989	0.10	ND	95	99	63-129	3.55	20
m,p-Xylene	1	0.203	0.212	0.20	ND	102	106	80-120	4.24	20
o-Xylene	1	0.0947	0.0991	0.10	ND	95	99	80-120	4.47	20

Surrogate Recovery

2-Fluorotoluene	1	0.0876	0.0926	0.10		88	93	62-126	5.53	20
-----------------	---	--------	--------	------	--	----	----	--------	------	----



Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/16/2020
Date Analyzed: 07/16/2020
Instrument: GC12
Matrix: Water
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201857
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS/LCSD-201857

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	20.0	50.0	-	-	-
MTBE	ND	0.530	1.00	-	-	-
Benzene	ND	0.200	0.500	-	-	-
Toluene	ND	0.190	0.500	-	-	-
Ethylbenzene	ND	0.230	0.500	-	-	-
m,p-Xylene	ND	0.400	1.00	-	-	-
o-Xylene	ND	0.130	0.500	-	-	-

Surrogate Recovery

aaa-TFT	9.89	10	99	74-117
---------	------	----	----	--------

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	48.4	51.7	60	81	86	78-116	6.58	20
MTBE	8.57	8.13	10	86	81	72-122	5.19	20
Benzene	8.88	8.89	10	89	89	81-123	0.123	20
Toluene	10.6	10.2	10	106	102	83-129	4.47	20
Ethylbenzene	10.8	11.0	10	108	110	88-126	1.46	20
m,p-Xylene	20.8	21.3	20	104	106	80-120	2.06	20
o-Xylene	10.3	10.5	10	103	105	80-120	2.14	20

Surrogate Recovery

aaa-TFT	9.84	10.0	10	98	100	74-117	1.87	20
---------	------	------	----	----	-----	--------	------	----



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/13/2020

Date Analyzed: 07/14/2020

Instrument: GC9b

Matrix: Soil

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 201651

Extraction Method: SW3550B

Analytical Method: SW8015B

Unit: mg/Kg

Sample ID: MB/LCS/LCSD-201651

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	0.750	1.00	-	-	-
TPH-Motor Oil (C18-C36)	ND	3.90	5.00	-	-	-
Surrogate Recovery						
C9	25.6			25	102	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	38.6	37.9	40	97	95	70-130	1.87	20
Surrogate Recovery								
C9	25.4	25.4	25	102	102	70-130	0.0343	20

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 07/13/2020

Date Analyzed: 07/13/2020 - 07/14/2020

Instrument: GC39B, GC9b

Matrix: Soil

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 201676

Extraction Method: SW3550B

Analytical Method: SW8015B

Unit: mg/Kg

Sample ID: MB/LCS/LCSD-201676
2007558-015BMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL Result	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	0.750	1.00	-	-	-
TPH-Motor Oil (C18-C36)	ND	3.90	5.00	-	-	-
Surrogate Recovery						
C9	19.0			25	76	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	37.7	37.3	40	94	93	70-130	1.07	20
Surrogate Recovery								
C9	19.8	19.4	25	79	77	70-130	2.18	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1	36.3	36.7	40	ND	89	90	70-130	1.08	20
Surrogate Recovery										
C9	1	25.4	25.5	25		102	102	70-130	0.332	20

Petro



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.
Date Prepared: 07/13/2020
Date Analyzed: 07/13/2020
Instrument: GC11A
Matrix: Water
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
BatchID: 201662
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L
Sample ID: MB/LCS/LCSD-201662

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	30.0	50.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	120	250	-	-	-
Surrogate Recovery						
C9	621			625	99	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1100	1100	1000	110	110	70-130	0.333	20
Surrogate Recovery								
C9	638	637	625	102	102	70-130	0.118	20

McC Campbell Analytical, Inc.

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

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

WorkOrder: 2007558

ClientCode: TEEA

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:

Jesse Wilson
Trident Env. & Eng., Inc.
110 L Street, Suite 1
Antioch, CA 94509
(925) 706-6931 FAX: (925) 778-9067

Email: jwilson@tridenteng.com
cc/3rd Party:
PO:
Project: 19-042-01; Antioch Lumber

Bill to:

Accounts Payable
Trident Env. & Eng., Inc.
110 L Street, Suite 1
Antioch, CA 94509
Rduran@tridenteng.com

Requested TAT: 5 days;

Date Received: 07/10/2020

Date Logged: 07/13/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2007558-001	SB-1-2	Soil	7/10/2020 09:20	<input type="checkbox"/>						A	A		A			A
2007558-002	SB-1-5	Soil	7/10/2020 09:25	<input type="checkbox"/>						A	A		A			A
2007558-003	HP1	Water	7/10/2020 13:50	<input type="checkbox"/>		C		E	D			A	A	D		
2007558-004	SB-2-2	Soil	7/10/2020 08:45	<input type="checkbox"/>			A			A	A		A			A
2007558-004	SB-2-2	Soil	7/10/2020 09:05	<input type="checkbox"/>	B											
2007558-005	SB-2-5	Soil	7/10/2020 08:47	<input type="checkbox"/>			A			A	A		A			A
2007558-005	SB-2-5	Soil	7/10/2020 09:05	<input type="checkbox"/>	B											
2007558-006	SB-3-2	Soil	7/10/2020 11:55	<input type="checkbox"/>						A	A		A			A
2007558-007	SB-3-5	Soil	7/10/2020 11:55	<input type="checkbox"/>						A	A		A			A
2007558-008	SB-4-1	Soil	7/10/2020 11:51	<input type="checkbox"/>						A	A		A			A
2007558-009	SB-4-2	Soil	7/10/2020 11:51	<input checked="" type="checkbox"/>									A		A	
2007558-010	SB-4-5	Soil	7/10/2020 11:51	<input type="checkbox"/>						A	A		A			A
2007558-011	SB-5-2	Soil	7/10/2020 10:25	<input type="checkbox"/>	A								A			
2007558-011	SB-5-2	Soil	7/10/2020 10:55	<input type="checkbox"/>			B			B	B					B
2007558-012	SB-5-5	Soil	7/10/2020 10:25	<input type="checkbox"/>	A								A			

Test Legend:

1	8260B_S
5	CAM17MS_DISS
9	PRDisposal Fee

2	8260B_W
6	CAM17MS_TTLC_S
10	PRDISSOLVED

3	8270_SCSM_S
7	G-MBTX_S
11	PRHOLD

4	8270_SCSM_W
8	G-MBTX_W
12	TPH(DMO)_S

Project Manager: Angela Rydelius

Prepared by: Lilly Ortiz

Comments:

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

McC Campbell Analytical, Inc.



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

☐ WaterTrax ☐ WriteOn ☐ EDF

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

WorkOrder: 2007558

ClientCode: TEEA

☐ Excel ☐ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:

Jesse Wilson
Trident Env. & Eng., Inc.
110 L Street, Suite 1
Antioch, CA 94509
(925) 706-6931 FAX: (925) 778-9067

Email: jwilson@tridenteng.com
cc/3rd Party:
PO:
Project: 19-042-01; Antioch Lumber

Bill to:

Accounts Payable
Trident Env. & Eng., Inc.
110 L Street, Suite 1
Antioch, CA 94509
Rduran@tridenteng.com

Requested TAT: 5 days;

Date Received: 07/10/2020

Date Logged: 07/13/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2007558-012	SB-5-5	Soil	7/10/2020 10:55	<input type="checkbox"/>			B			B	B					B
2007558-013	SB-6-2	Soil	7/10/2020 11:45	<input type="checkbox"/>						A	A		A			A
2007558-014	SB-6-5	Soil	7/10/2020 11:45	<input type="checkbox"/>						A	A		A			A
2007558-015	SB-7-1	Soil	7/10/2020 11:15	<input type="checkbox"/>	A								A			
2007558-015	SB-7-1	Soil	7/10/2020 11:20	<input type="checkbox"/>			B			B	B					B
2007558-016	SB-7-2	Soil	7/10/2020 11:15	<input checked="" type="checkbox"/>									A		A	
2007558-017	SB-7-5	Soil	7/10/2020 11:15	<input type="checkbox"/>	A								A			
2007558-017	SB-7-5	Soil	7/10/2020 11:20	<input type="checkbox"/>			B			B	B					B
2007558-018	HP7	Water	7/10/2020 14:30	<input type="checkbox"/>		C		D	E			A	A	E		
2007558-019	SB-2-2A	Soil	7/10/2020 08:45	<input type="checkbox"/>						A	A		A			A
2007558-020	HP1a	Water	7/10/2020 13:50	<input type="checkbox"/>					C			A	A	C		

Test Legend:

1	8260B_S	2	8260B_W	3	8270_SCSM_S	4	8270_SCSM_W
5	CAM17MS_DISS	6	CAM17MS_TTLC_S	7	G-MBTX_S	8	G-MBTX_W
9	PRDisposal Fee	10	PRDISSOLVED	11	PRHOLD	12	TPH(DMO)_S

Project Manager: Angela Rydelius

Prepared by: Lilly Ortiz

Comments:

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

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

WorkOrder: 2007558

ClientCode: TEEA

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:

Jesse Wilson
Trident Env. & Eng., Inc.
110 L Street, Suite 1
Antioch, CA 94509
(925) 706-6931 FAX: (925) 778-9067

Email: jwilson@tridenteng.com
cc/3rd Party:
PO:
Project: 19-042-01; Antioch Lumber

Bill to:

Accounts Payable
Trident Env. & Eng., Inc.
110 L Street, Suite 1
Antioch, CA 94509
Rduran@tridenteng.com

Requested TAT: 5 days;

Date Received: 07/10/2020

Date Logged: 07/13/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)									
					13	14	15	16	17	18	19	20	21	22
2007558-001	SB-1-2	Soil	7/10/2020 09:20	<input type="checkbox"/>										
2007558-002	SB-1-5	Soil	7/10/2020 09:25	<input type="checkbox"/>										
2007558-003	HP1	Water	7/10/2020 13:50	<input type="checkbox"/>	B									
2007558-004	SB-2-2	Soil	7/10/2020 08:45	<input type="checkbox"/>										
2007558-004	SB-2-2	Soil	7/10/2020 09:05	<input type="checkbox"/>										
2007558-005	SB-2-5	Soil	7/10/2020 08:47	<input type="checkbox"/>										
2007558-005	SB-2-5	Soil	7/10/2020 09:05	<input type="checkbox"/>										
2007558-006	SB-3-2	Soil	7/10/2020 11:55	<input type="checkbox"/>										
2007558-007	SB-3-5	Soil	7/10/2020 11:55	<input type="checkbox"/>										
2007558-008	SB-4-1	Soil	7/10/2020 11:51	<input type="checkbox"/>										
2007558-009	SB-4-2	Soil	7/10/2020 11:51	<input checked="" type="checkbox"/>										
2007558-010	SB-4-5	Soil	7/10/2020 11:51	<input type="checkbox"/>										
2007558-011	SB-5-2	Soil	7/10/2020 10:25	<input type="checkbox"/>										
2007558-011	SB-5-2	Soil	7/10/2020 10:55	<input type="checkbox"/>										
2007558-012	SB-5-5	Soil	7/10/2020 10:25	<input type="checkbox"/>										

Test Legend:

13	TPH(DMO)_W	14		15		16	
17		18		19		20	
21		22		23		24	

Project Manager: Angela Rydelius

Prepared by: Lilly Ortiz

Comments:

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

McC Campbell Analytical, Inc.



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

☐ WaterTrax ☐ WriteOn ☐ EDF

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

WorkOrder: 2007558

ClientCode: TEEA

☐ Excel ☐ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:

Jesse Wilson
Trident Env. & Eng., Inc.
110 L Street, Suite 1
Antioch, CA 94509
(925) 706-6931 FAX: (925) 778-9067

Email: jwilson@tridenteng.com
cc/3rd Party:
PO:
Project: 19-042-01; Antioch Lumber

Bill to:

Accounts Payable
Trident Env. & Eng., Inc.
110 L Street, Suite 1
Antioch, CA 94509
Rduran@tridenteng.com

Requested TAT: 5 days;

Date Received: 07/10/2020

Date Logged: 07/13/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					13	14	15	16	17	18	19	20	21	22	23	24
2007558-012	SB-5-5	Soil	7/10/2020 10:55	<input type="checkbox"/>												
2007558-013	SB-6-2	Soil	7/10/2020 11:45	<input type="checkbox"/>												
2007558-014	SB-6-5	Soil	7/10/2020 11:45	<input type="checkbox"/>												
2007558-015	SB-7-1	Soil	7/10/2020 11:15	<input type="checkbox"/>												
2007558-015	SB-7-1	Soil	7/10/2020 11:20	<input type="checkbox"/>												
2007558-016	SB-7-2	Soil	7/10/2020 11:15	<input checked="" type="checkbox"/>												
2007558-017	SB-7-5	Soil	7/10/2020 11:15	<input type="checkbox"/>												
2007558-017	SB-7-5	Soil	7/10/2020 11:20	<input type="checkbox"/>												
2007558-018	HP7	Water	7/10/2020 14:30	<input type="checkbox"/>	B											
2007558-019	SB-2-2A	Soil	7/10/2020 08:45	<input type="checkbox"/>												
2007558-020	HP1a	Water	7/10/2020 13:50	<input type="checkbox"/>	B											

Test Legend:

13	TPH(DMO)_W	14		15		16	
17		18		19		20	
21		22		23		24	

Project Manager: Angela Rydelius

Prepared by: Lilly Ortiz

Comments:

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



McC Campbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: TRIDENT ENV. & ENG., INC.

Project: 19-042-01; Antioch Lumber

Work Order: 2007558

Client Contact: Jesse Wilson

QC Level: LEVEL 2

Contact's Email: jwilson@tridenteng.com

Comments:

Date Logged: 7/13/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2007558-001A	SB-1-2	Soil	SW8015B (Diesel & Motor Oil)	1	16OZ GJ, Unpres	<input type="checkbox"/>	7/10/2020 9:20	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
2007558-002A	SB-1-5	Soil	SW8015B (Diesel & Motor Oil)	1	16OZ GJ, Unpres	<input type="checkbox"/>	7/10/2020 9:25	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
2007558-003A	HP1	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	7/10/2020 13:50	5 days	Present	<input type="checkbox"/>	
2007558-003B	HP1	Water	SW8015B (Diesel & Motor Oil)	2	aVOA, Unpres	<input type="checkbox"/>	7/10/2020 13:50	5 days	Present	<input type="checkbox"/>	
2007558-003C	HP1	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/10/2020 13:50	5 days	Present	<input type="checkbox"/>	
2007558-003D	HP1	Water	E200.8 (CAM 17) (Dissolved-Lab Filtered)	1	250mL HDPE, unprsv.	<input type="checkbox"/>	7/10/2020 13:50	5 days	Present	<input type="checkbox"/>	
2007558-003E	HP1	Water	SW8270C (SVOCs)	1	ILA, Unpres	<input type="checkbox"/>	7/10/2020 13:50	5 days	Present	<input type="checkbox"/>	
2007558-004A	SB-2-2	Soil	SW8015B (Diesel & Motor Oil)	1	16OZ GJ, Unpres	<input type="checkbox"/>	7/10/2020 8:45	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
2007558-004B	SB-2-2	Soil	SW8260B (VOCs)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 9:05	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

WORK ORDER SUMMARY

Client Name: TRIDENT ENV. & ENG., INC.

Project: 19-042-01; Antioch Lumber

Work Order: 2007558

Client Contact: Jesse Wilson

QC Level: LEVEL 2

Contact's Email: jwilson@tridenteng.com

Comments:

Date Logged: 7/13/2020

☐ WaterTrax
 ☐ WriteOn
 ☐ EDF
 ☐ Excel
 ☐ EQUIS
☒ Email
☐ HardCopy
☐ ThirdParty
☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2007558-005A	SB-2-5	Soil	SW8015B (Diesel & Motor Oil)	1	16OZ GJ, Unpres	<input type="checkbox"/>	7/10/2020 8:47	5 days			<input type="checkbox"/>
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days			<input type="checkbox"/>
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days			<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days			<input type="checkbox"/>
2007558-005B	SB-2-5	Soil	SW8260B (VOCs)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 9:05	5 days			<input type="checkbox"/>
2007558-006A	SB-3-2	Soil	SW8015B (Diesel & Motor Oil)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 11:55	5 days			<input type="checkbox"/>
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days			<input type="checkbox"/>
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days			<input type="checkbox"/>
2007558-007A	SB-3-5	Soil	SW8015B (Diesel & Motor Oil)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 11:55	5 days			<input type="checkbox"/>
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days			<input type="checkbox"/>
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days			<input type="checkbox"/>
2007558-008A	SB-4-1	Soil	SW8015B (Diesel & Motor Oil)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 11:51	5 days			<input type="checkbox"/>
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days			<input type="checkbox"/>
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days			<input type="checkbox"/>
2007558-010A	SB-4-5	Soil	SW8015B (Diesel & Motor Oil)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 11:51	5 days			<input type="checkbox"/>
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days			<input type="checkbox"/>

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McC Campbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: TRIDENT ENV. & ENG., INC.

Project: 19-042-01; Antioch Lumber

Work Order: 2007558

Client Contact: Jesse Wilson

QC Level: LEVEL 2

Contact's Email: jwilson@tridenteng.com

Comments:

Date Logged: 7/13/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2007558-010A	SB-4-5	Soil	SW6020 (CAM 17)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 11:51	5 days		<input type="checkbox"/>	
2007558-011A	SB-5-2	Soil	SW8260B (VOCs)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 10:25	5 days		<input type="checkbox"/>	
2007558-011B	SB-5-2	Soil	SW8015B (Diesel & Motor Oil)	1	16OZ GJ, Unpres	<input type="checkbox"/>	7/10/2020 10:55	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
2007558-012A	SB-5-5	Soil	SW8260B (VOCs)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 10:25	5 days		<input type="checkbox"/>	
2007558-012B	SB-5-5	Soil	SW8015B (Diesel & Motor Oil)	1	16OZ GJ, Unpres	<input type="checkbox"/>	7/10/2020 10:55	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
2007558-013A	SB-6-2	Soil	SW8015B (Diesel & Motor Oil)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 11:45	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
2007558-014A	SB-6-5	Soil	SW8015B (Diesel & Motor Oil)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 11:45	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

WORK ORDER SUMMARY

Client Name: TRIDENT ENV. & ENG., INC.

Project: 19-042-01; Antioch Lumber

Work Order: 2007558

Client Contact: Jesse Wilson

QC Level: LEVEL 2

Contact's Email: jwilson@tridenteng.com

Comments:

Date Logged: 7/13/2020

☐ WaterTrax
 ☐ WriteOn
 ☐ EDF
 ☐ Excel
 ☐ EQUiS
☒ Email
☐ HardCopy
☐ ThirdParty
☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2007558-014A	SB-6-5	Soil	SW6020 (CAM 17)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 11:45	5 days		<input type="checkbox"/>	
2007558-015A	SB-7-1	Soil	SW8260B (VOCs)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 11:15	5 days		<input type="checkbox"/>	
2007558-015B	SB-7-1	Soil	SW8015B (Diesel & Motor Oil)	1	16OZ GJ, Unpres	<input type="checkbox"/>	7/10/2020 11:20	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
2007558-016B	SB-7-2	Soil		1	16OZ GJ, Unpres	<input type="checkbox"/>	7/10/2020 11:20			<input checked="" type="checkbox"/>	
2007558-017A	SB-7-5	Soil	SW8260B (VOCs)	1	Acetate Liner	<input type="checkbox"/>	7/10/2020 11:15	5 days		<input type="checkbox"/>	
2007558-017B	SB-7-5	Soil	SW8015B (Diesel & Motor Oil)	1	16OZ GJ, Unpres	<input type="checkbox"/>	7/10/2020 11:20	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
2007558-018A	HP7	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	7/10/2020 14:30	5 days	Present	<input type="checkbox"/>	
2007558-018B	HP7	Water	SW8015B (Diesel & Motor Oil)	2	aVOA, Unpres	<input type="checkbox"/>	7/10/2020 14:30	5 days	Present	<input type="checkbox"/>	
2007558-018C	HP7	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	7/10/2020 14:30	5 days	Present	<input type="checkbox"/>	
2007558-018D	HP7	Water	SW8270C (SVOCs)	1	1LA, Unpres	<input type="checkbox"/>	7/10/2020 14:30	5 days	Present	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McC Campbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: TRIDENT ENV. & ENG., INC.

Project: 19-042-01; Antioch Lumber

Work Order: 2007558

Client Contact: Jesse Wilson

QC Level: LEVEL 2

Contact's Email: jwilson@tridenteng.com

Comments:

Date Logged: 7/13/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2007558-018E	HP7	Water	E200.8 (CAM 17) (Dissolved-Lab Filtered)	1	250mL HDPE, unprsv.	<input type="checkbox"/>	7/10/2020 14:30	5 days	Present	<input type="checkbox"/>	
2007558-019A	SB-2-2A	Soil	SW8015B (Diesel & Motor Oil)	1	16OZ GJ, Unpres	<input type="checkbox"/>	7/10/2020 8:45	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
2007558-020A	HP1a	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	7/10/2020 13:50	5 days	Present	<input type="checkbox"/>	
2007558-020B	HP1a	Water	SW8015B (Diesel & Motor Oil)	2	aVOA, Unpres	<input type="checkbox"/>	7/10/2020 13:50	5 days	Present	<input type="checkbox"/>	
2007558-020C	HP1a	Water	E200.8 (CAM 17) (Dissolved-Lab Filtered)	1	250mL HDPE, unprsv.	<input type="checkbox"/>	7/10/2020 13:50	5 days	Present	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McC Campbell Analytical, Inc.

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

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒
GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐
Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐ Claim # _____

Report To: JESSE WILSON Bill To: TRIDENT ENV + ENG.
Company: TRIDENT ENVIRONMENTAL + ENGINEERING
110 L STREET, SATEL, ANTIARK, CA 94509
Tele: (925) 354 2973 E-Mail: J.Wilson@tridenteng.com
Project #: 19-042-01 Project Name: Antiah Lumber
Project Location: E STREET + 2ND STREET Purchase Order#
Sampler Signature: Zylos Freeman

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX										METHOD PRESERVED		BTEN & TPH as Gas (8021/8015) + TPH as Diesel (8015) + Total Petroleum Oil & Grease (E/B&F)	Total Petroleum Hydrocarbons	EPA 505/608/8081 (CI Pesticides)	EPA 608/8082 PCB's; Aroclors	EPA 507/8141 (NP Pesticides)	EPA 515/8151 (Acidic CI Herbicides)	EPA 524.2/624/8260 (VOC's)	EPA 525.2/625/8270 (SVOC's)	EPA 8270 SIM/8310 (PAH's)	CAM 17 Metals (200.8/6020)	LUFT 5 Metals (200.8/6020)	Metals (200.8/6020)***	Lab to Filter sample for Dissolved metals analysis	Silver																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SB-1-2		7-10-20	0920	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

***MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.


*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:	Date:	Time:	Received By:	ICE/CLP 200.8 GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB APPROPRIATE CONTAINERS PRESERVED IN LAB	COMMENTS:
<u>Jesse Wilson</u>	<u>7/10</u>	<u>1800</u>	<u>Zylos Freeman</u>		<u>HPI - no acid - please lab filter</u>
Relinquished By:	Date:	Time:	Received By:		
Relinquished By:	Date:	Time:	Received By:		

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION pH < 2

General COC

MAI Work Order # 2007588

 McCAMPBELL ANALYTICAL, INC. 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701 Telephone: (877) 252-9262 / Fax: (925) 252-9269 www.mccampbell.com main@mccampbell.com						CHAIN OF CUSTODY RECORD													
Report To: _____ Bill To: _____						Turn Around Time: 1 Day Rush		2 Day Rush		3 Day Rush		<input checked="" type="checkbox"/> STD		Quote # _____					
Company: _____						J-Flag / MDL		ESL		Cleanup Approved		Dry Weight		Bottle Order # _____					
Email: _____						Delivery Format: PDF		GeoTracker EDF		EDD		Write On (DW)		Detect Summary					
Alt Email: _____ Tele: _____						Analysis Requested													
Project Name: _____ Project #: _____						<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> BTEX, TPHs, MTBE, BTEX TPHd, MD B015 VOCs B260 SVOCs B270 04m17 metals </div> <div> Hold </div> </div>													
Project Location: _____ PO # _____																			
Sampler Signature: <i>J. A. Deenen</i>																			
SAMPLE ID Location / Field Point	Sampling		# Containers	Matrix	Preservative														
	Date	Time																	
SB-4-5	7-10-20	1151	TUBE	SOIL		X	X												
SB-5-2	7-10-20	1025	JAR	SOIL		X	X												
SB-5-2	7-10-20	1055	JAR	SOIL		X	X												
SB-5-5	7-10-20	1025	TUBE	SOIL		X	X												
SB-5-5	7-10-20	1055	JAR	SOIL		X	X												
SB-6-2	7-10-20	1145	TUBE	SOIL		X	X												
SB-6-5	7-10-20	1145	TUBE	SOIL		X	X												
SB-7-1	7-10-20	1115	TUBE	SOIL		X	X												
SB-7-1	7-10-20	1120	JAR	SOIL		X	X												
SB-7-2	7-10-20	1115	TUBE	SOIL											X				
MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.																			
* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.																			
Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.																			
Relinquished By / Company Name						Date		Time		Received By / Company Name						Date		Time	
<i>Jessie Wilson / TRIDENT ENVIRONMENTAL</i>						7/10/20		1800		<i>Julia O'Leary</i>						7/10/20		1800	
Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other Preservative Code: 1=4°C 2=HCl 3=H ₂ SO ₄ 4=HNO ₃ 5=NaOH 6=ZnOAc/NaOH 7=None Temp _____ °C Initials _____																			

Page 2 of 3

Page 139 of 141

MAI Work Order # 20075.53

Page 3 of 3
Page 140 of 141



Sample Receipt Checklist

Client Name: **Trident Env. & Eng., Inc.**
Project: **19-042-01; Antioch Lumber**

Date and Time Received: **7/10/2020 18:00**

Date Logged: **7/13/2020**

Received by: **Lilly Ortiz**

Logged by: **Lilly Ortiz**

WorkOrder No: **2007558** Matrix: Soil/Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 6.2°C	NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO ₃ : <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2007558 B

Report Created for: Trident Env. & Eng., Inc.

110 L Street, Suite 1
Antioch, CA 94509

Project Contact: Jesse Wilson

Project P.O.:

Project: 19-042-01; Antioch Lumber

Project Received: 07/10/2020

Analytical Report reviewed & approved for release on 08/17/2020 by:

Susan Thompson

Project Manager

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





Glossary of Terms & Qualifier Definitions

Client: Trident Env. & Eng., Inc.
Project: 19-042-01; Antioch Lumber
WorkOrder: 2007558 B

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Trident Env. & Eng., Inc.

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558 B

Analytical Qualifiers

- H Samples were analyzed out of hold time
- J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
- e7 Oil range compounds are significant

Quality Control Qualifiers

- F7 The LCS/LCSD recovery is above the upper control limit. The target analyte(s) were Not Detected (ND); therefore, the data is reportable.



McC Campbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Trident Env. & Eng., Inc.
Date Received: 07/10/2020 18:00
Date Prepared: 08/11/2020
Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1	2007558-003F	Water	07/10/2020 13:50	GC6A 08112032.D	203551

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	H	50	1	08/11/2020 19:22
TPH-Motor Oil (C18-C36)	760	H	250	1	08/11/2020 19:22

Surrogates	REC (%)	Qualifiers	Limits	
C9	86	H	70-130	08/11/2020 19:22

Analyst(s): JIS

Analytical Comments: e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HP1a	2007558-020D	Water	07/10/2020 13:50	GC6B 08112025.D	203551

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	H	50	1	08/11/2020 17:26
TPH-Motor Oil (C18-C36)	ND	H	250	1	08/11/2020 17:26

Surrogates	REC (%)	Qualifiers	Limits	
C9	93	H	70-130	08/11/2020 17:26

Analyst(s): JIS



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Quality Control Report

Client: Trident Env. & Eng., Inc.

Date Prepared: 08/11/2020

Date Analyzed: 08/11/2020 - 08/12/2020

Instrument: GC11A, GC6B

Matrix: Water

Project: 19-042-01; Antioch Lumber

WorkOrder: 2007558

BatchID: 203551

Extraction Method: SW3510C

Analytical Method: SW8015B

Unit: µg/L

Sample ID: MB/LCS/LCSD-203551

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	37.7,J	30.0	50.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	120	250	-	-	-

Surrogate Recovery

C9	573			625	92	70-130
----	-----	--	--	-----	----	--------

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1320	1240	1000	133,F7	124	70-130	6.63	20
Surrogate Recovery								
C9	677	642	625	108	103	70-130	5.28	20

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2007558 B ClientCode: TEEA

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:

Jesse Wilson
Trident Env. & Eng., Inc.
110 L Street, Suite 1
Antioch, CA 94509
(925) 706-6931 FAX: (925) 778-9067

Email: jwilson@tridenteng.com
cc/3rd Party: mHeckathorn@tridenteng.com; renan@ast
PO:
Project: 19-042-01; Antioch Lumber

Bill to:

Accounts Payable
Trident Env. & Eng., Inc.
110 L Street, Suite 1
Antioch, CA 94509
Rduran@tridenteng.com

Requested TAT: 5 days;

Date Received: 07/10/2020

Date Logged: 07/13/2020

Date Add-On: 08/11/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2007558-003	HP1	Water	7/10/2020 13:50	<input type="checkbox"/>	F											
2007558-020	HP1a	Water	7/10/2020 13:50	<input type="checkbox"/>	D											

Test Legend:

1	TPH(DMO)_W	2		3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Angela Rydelius

Prepared by: Lilly Ortiz

Add-On Prepared By: Maria Venegas

Comments: Add on A for invoicing of chromatograms 07/29/2020 CAA. Re-Extract TPHDMO added to 003 & 020 8/11/2020 STAT.

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



McC Campbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: TRIDENT ENV. & ENG., INC.

Project: 19-042-01; Antioch Lumber

Work Order: 2007558

Client Contact: Jesse Wilson

QC Level: LEVEL 2

Contact's Email: jwilson@tridenteng.com

Comments: Add on A for invoicing of chromatograms 07/29/2020 CAA. Re-Extract TPHDMO added to 003 & 020 8/11/2020 STAT.

Date Logged: 7/13/2020

Date Add-On: 8/11/2020

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2007558-003F	HP1	Water	SW8015B (Diesel & Motor Oil)	1	VOA w/ HCl	7/10/2020 13:50	5 days	Present	<input type="checkbox"/>	
2007558-020D	HP1a	Water	SW8015B (Diesel & Motor Oil)	1	VOA w/ HCl	7/10/2020 13:50	5 days	Present	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McC Campbell Analytical, Inc.

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

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒

GeoTracker PDF ☐ PDF ☐ FDD ☐ Write On (DW) ☐ EQALS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ DST Clean Up Fund Project ☐ : Claim # _____

Report To: JESSE Wilson Bill To: Trident Env + Eng.
Company: Trident Environmental Engineering
110 L STREET, SUITE 1, ANTIPOLO, CA 94509
Tele: (925) 354-2773 E-Mail: JWilson@tridenteng.com
Project #: 19-042-01 Project Name: Antipolo Lumber
Project Location: E Street + 2nd Street Purchase Order # _____
Sampler Signature: Jesse Wilson

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX										METHOD PRESERVED
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HSO ₄	Other
SB 1-2		7-10-20	0920	1											
SB 1-5		7-10-20	0925	1											
HPI		7-10-20	1350	8											
SB 2-2		7-10-20	0846	1											
SB 2-2		7-10-20	0905	1											
SB 2-5		7-10-20	0847	1											
SB 2-5		7-10-20	0905	1											
SB 3-2		7-10-20	1155	1											
SB 3-5		7-10-20	1155	1											
SB 4-1		7-10-20	1151	1											
SB 4-2		7-10-20	1151	1											

***MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of spill, glove, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by T200.8.

Relinquished By:	Date:	Time:	Received By:
<u>Jesse Wilson</u>	<u>7/10/20</u>	<u>1800</u>	<u>Jesse Wilson</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/CAD 2008
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:

HPI - no acid - please
lab filter

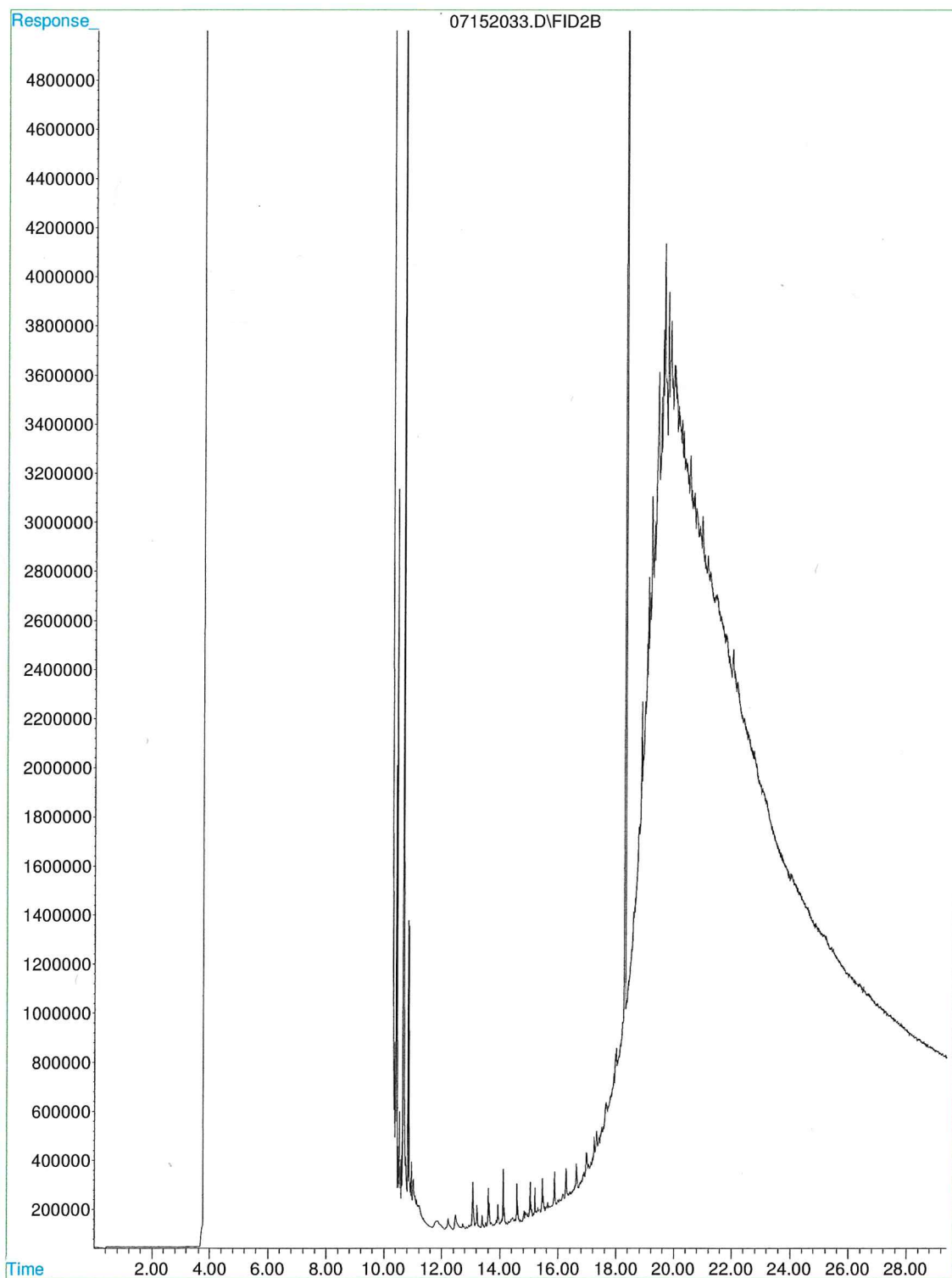
VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION pH=2

Added 8/11/2020 STAT

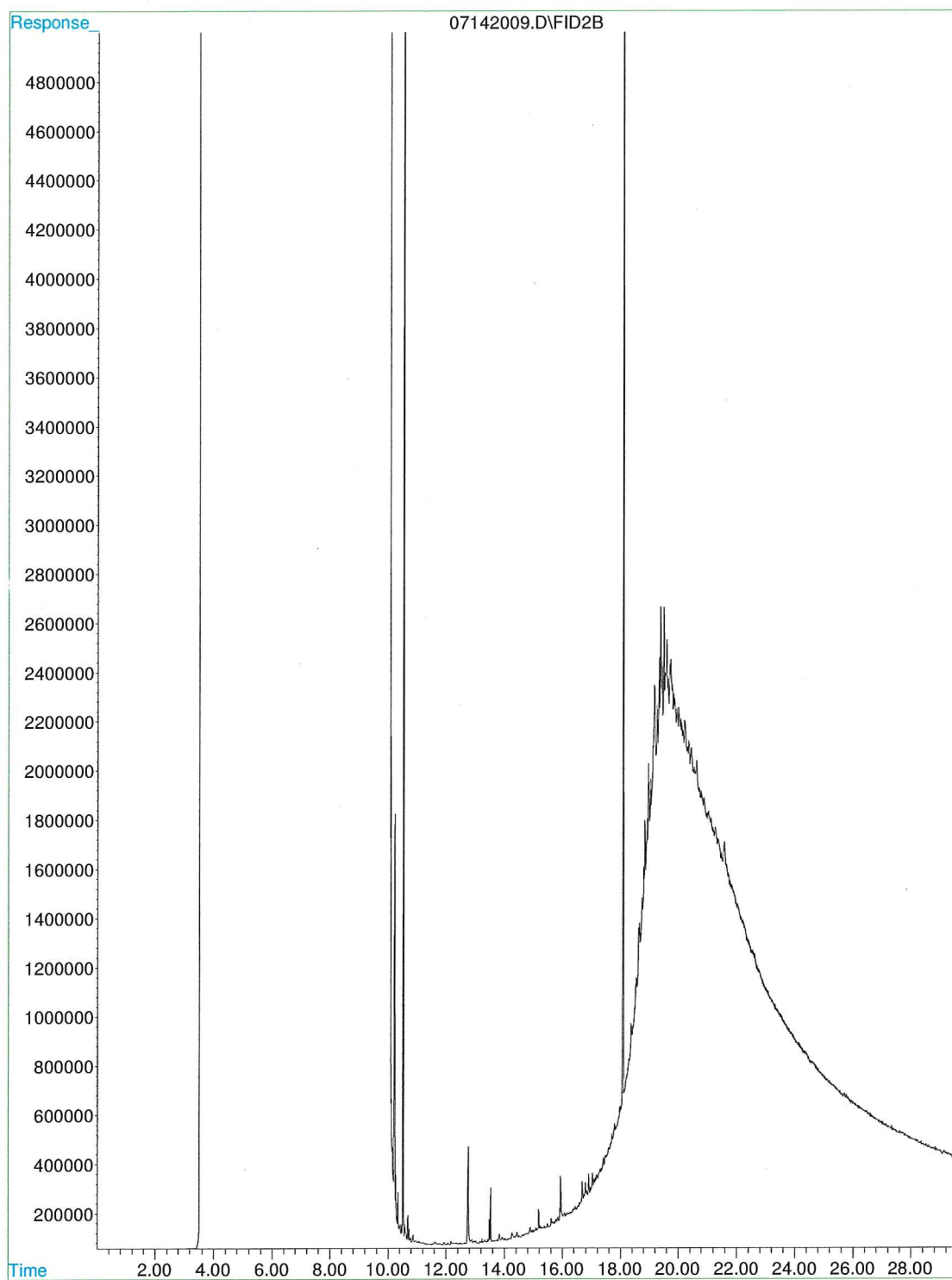
1 of 3

MAI Work Order # 2007553Page 9 of 9

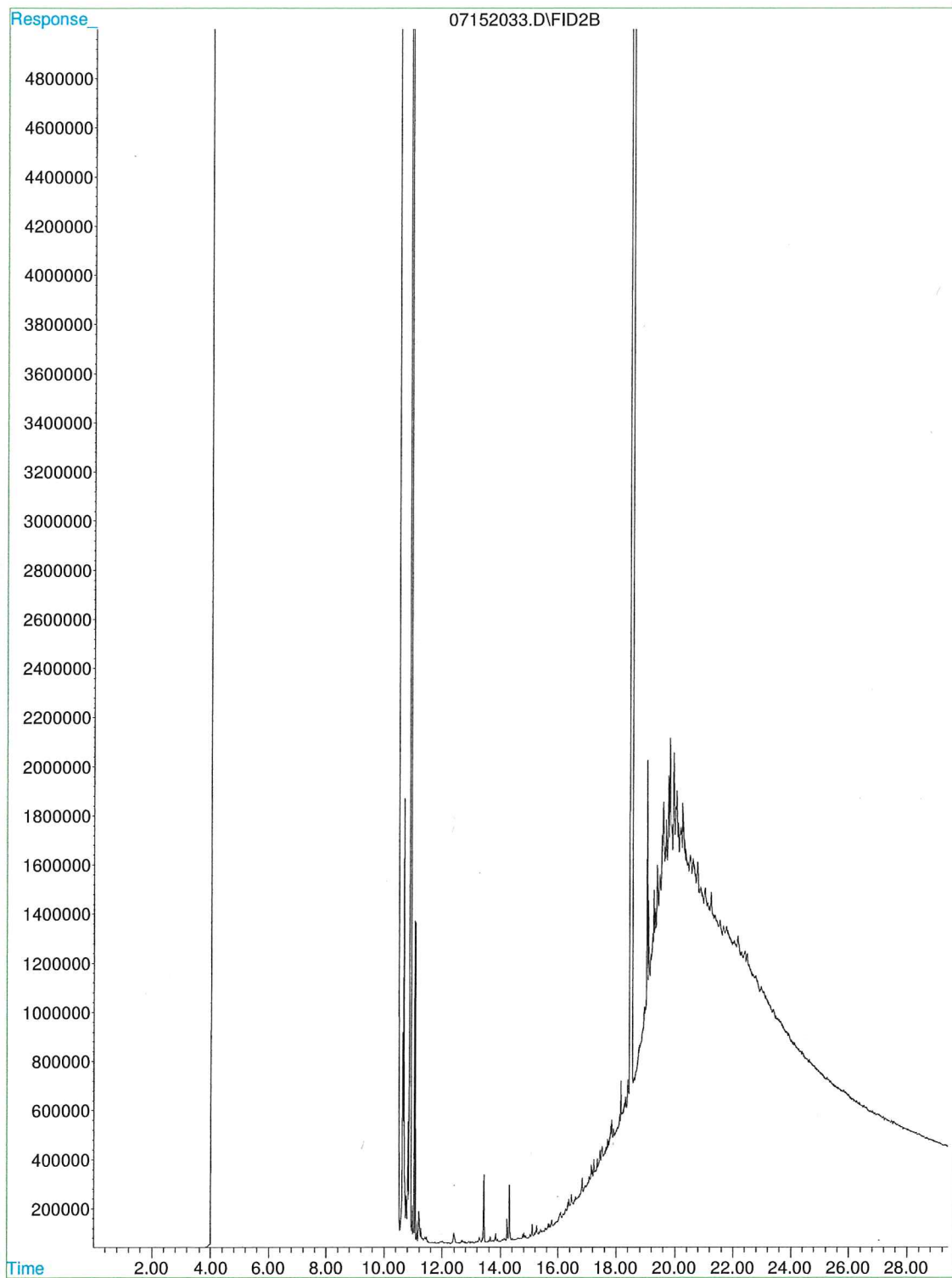
File : D:\HPCHEM\GC6\FROM GC31\07152033.D
Operator : Jillian
Acquired : 15 Jul 2020 9:48 pm using AcqMethod GC31A_B5.M
Instrument : GC31
Sample Name: 2007558-001A S
Misc Info : TPH
Vial Number: 67



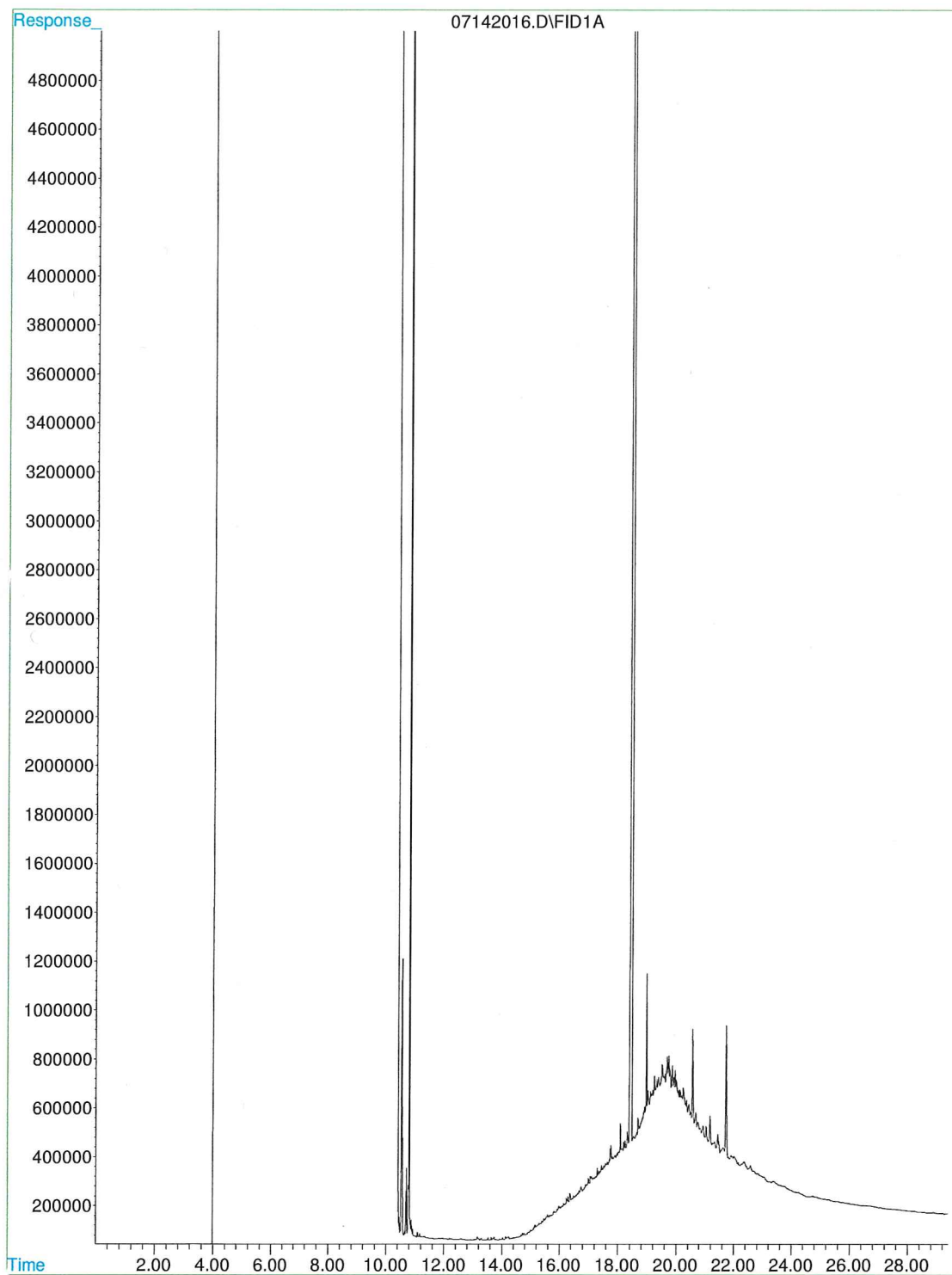
File : D:\HPCHEM\GC9\DATAB\07142009.D
Operator : Jillian
Acquired : 14 Jul 2020 12:20 pm using AcqMethod GC9A_C.M
Instrument : GC-9
Sample Name: 2007558-003B W
Misc Info : TPH
Vial Number: 55



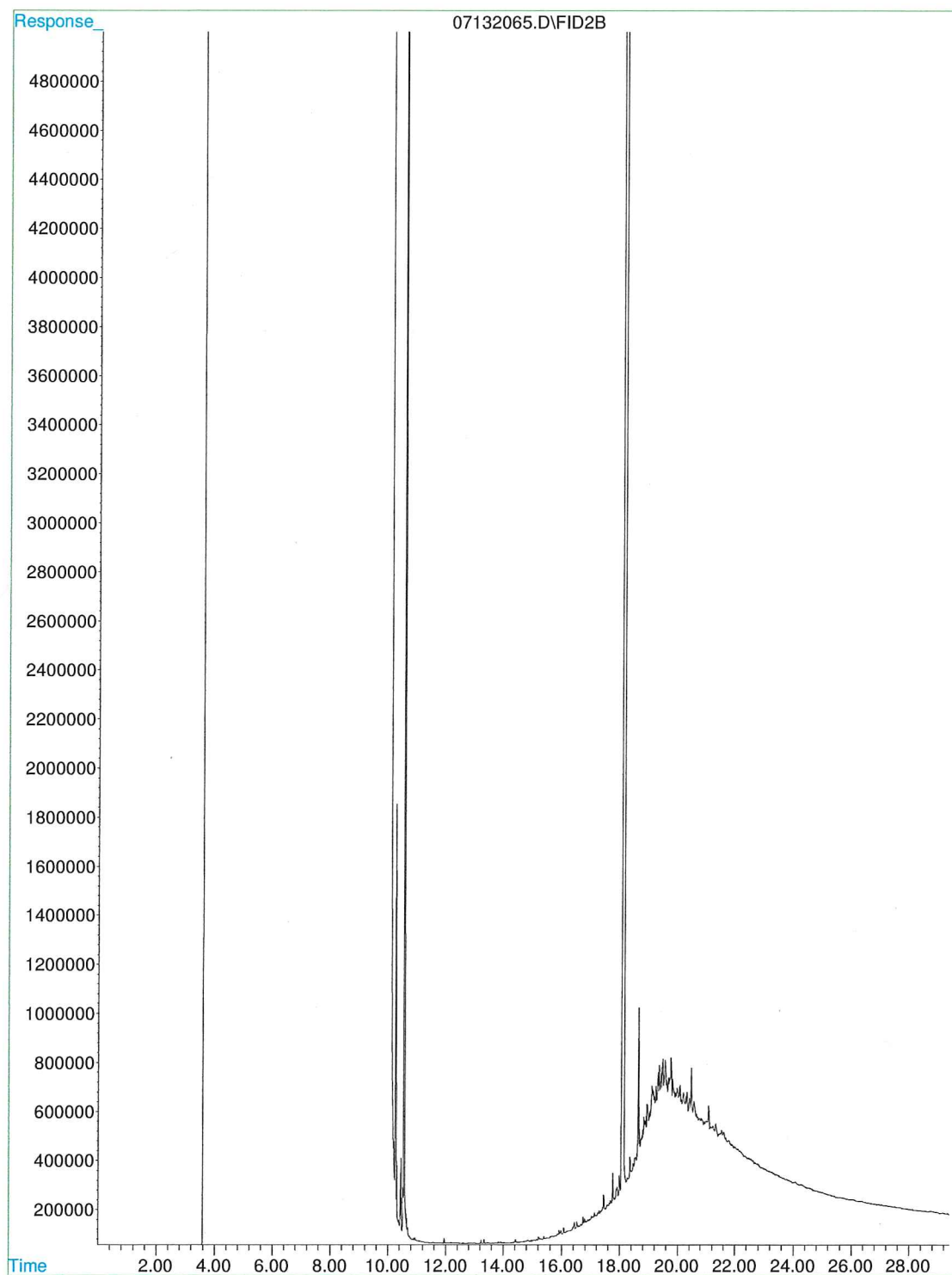
File : D:\HPCHEM\GC11\DATAB\07152033.D
Operator : JILLIAN
Acquired : 15 Jul 2020 8:57 pm using AcqMethod GC11A_B4.M
Instrument : GC-11
Sample Name: 2007558-006A S
Misc Info : TPH
Vial Number: 67



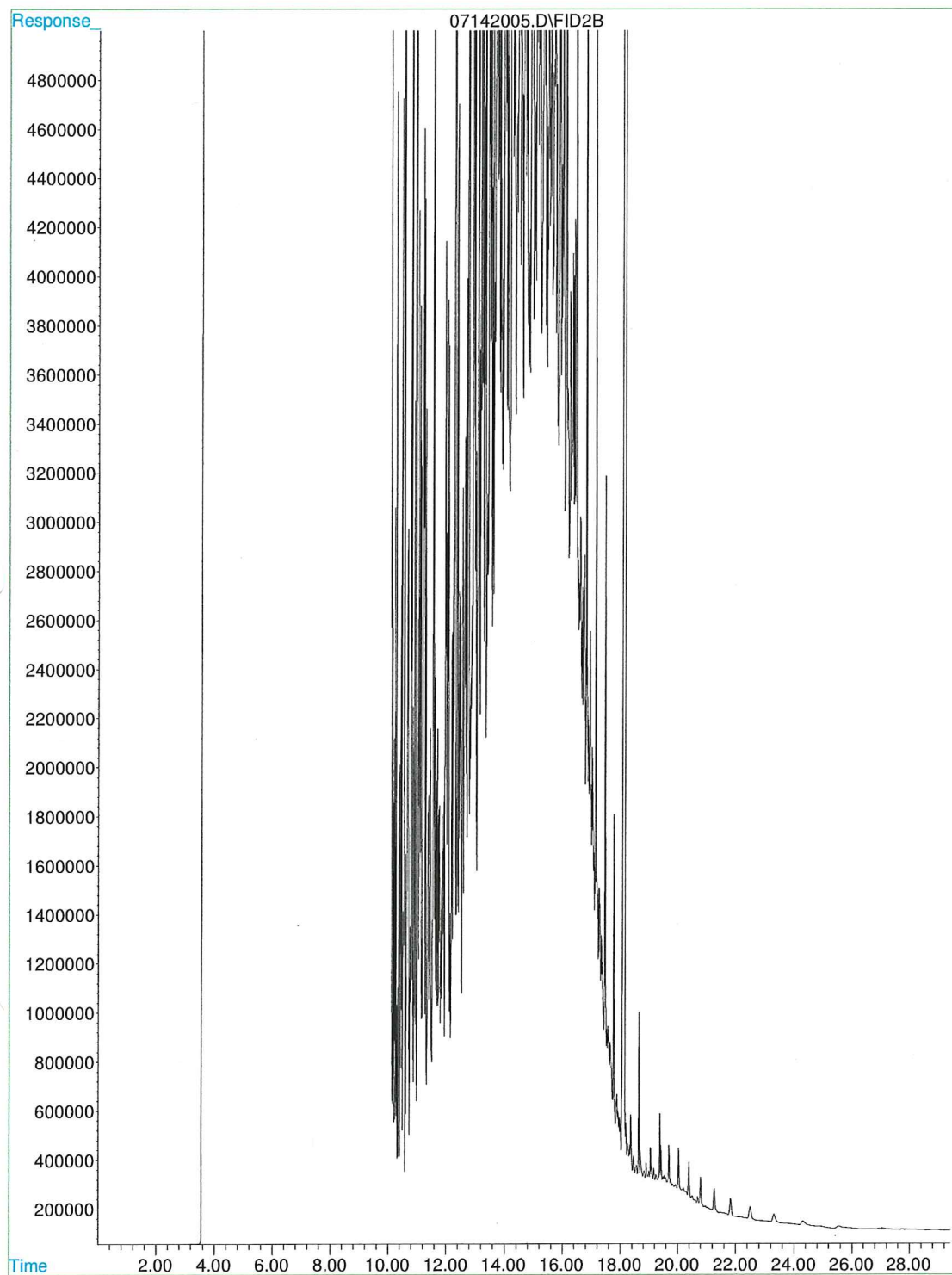
File : D:\HPCHEM\GC9\DATAA\07142016.D
Operator : Jillian
Acquired : 14 Jul 2020 2:17 pm using AcqMethod GC9A_C.M
Instrument : GC-9
Sample Name: 2007558-008A S
Misc Info : TPH
Vial Number: 8



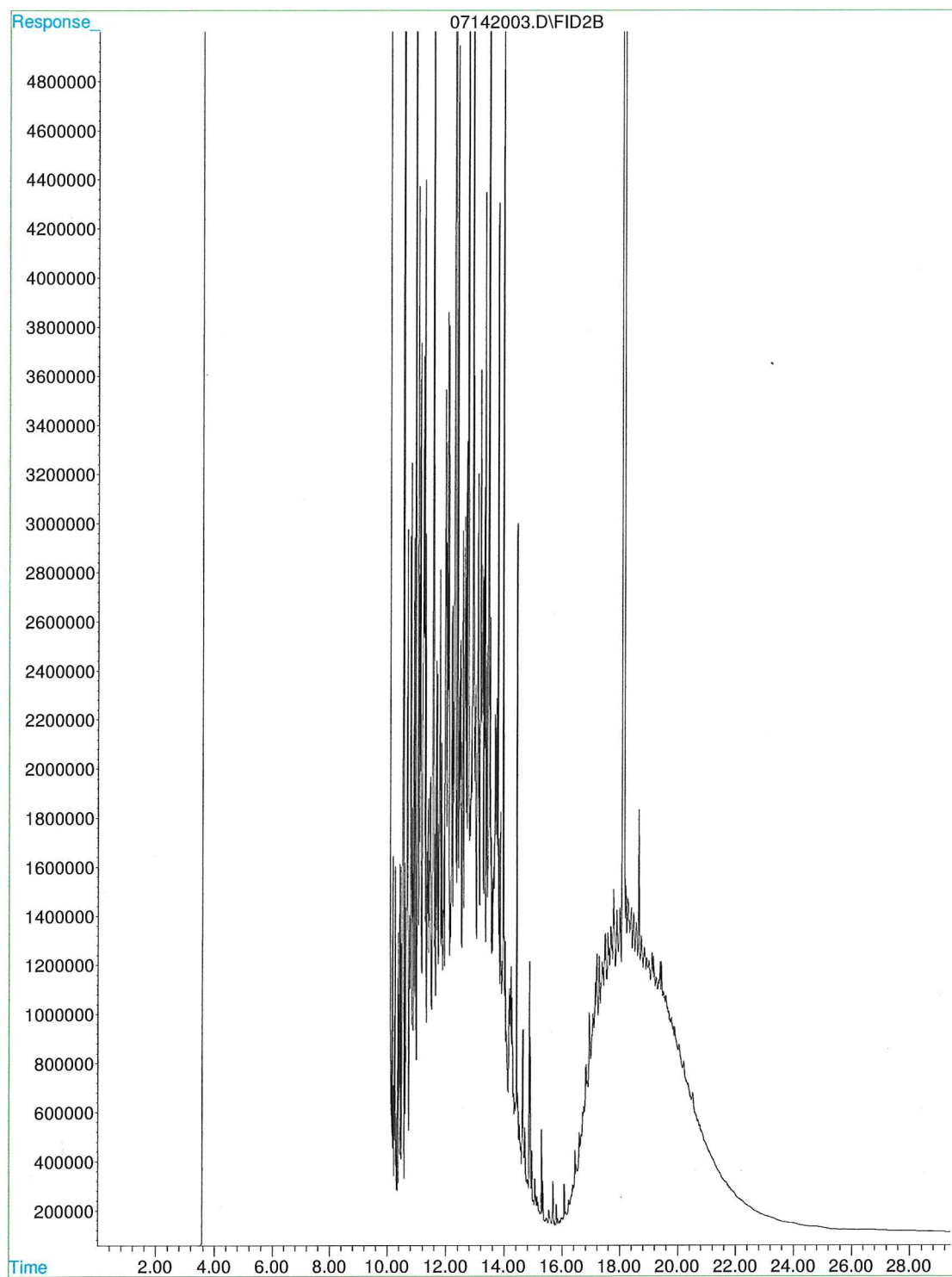
File : D:\HPCHEM\GC9\DATAB\07132065.D
Operator : Jillian
Acquired : 14 Jul 2020 5:15 am using AcqMethod GC9A_C.M
Instrument : GC-9
Sample Name: 2007558-015B S
Misc Info : TPH
Vial Number: 83



File : D:\HPCHEM\GC9\DATAB\07142005.D
Operator : Jillian
Acquired : 14 Jul 2020 11:02 am using AcqMethod GC9A_C.M
Instrument : GC-9
Sample Name: CCV 7-9
Misc Info :
Vial Number: 53



File : D:\HPCHEM\GC9\DATAB\07142003.D
Operator : Jillian
Acquired : 14 Jul 2020 10:24 am using AcqMethod GC9A_C.M
Instrument : GC-9
Sample Name: CCV K MO
Misc Info :
Vial Number: 52



ATTACHMENT "C"

CONSULTING SERVICES AGREEMENT BETWEEN THE CITY OF ANTIOCH AND [NAME OF CONSULTANT] FOR THE RIVERTOWN COMMUNITY SPACE (P.W. 514-7)

THIS AGREEMENT ("**Agreement**") is made and entered into this ____ day of _____, 202__ ("**Effective Date**") by and between the City of Antioch, a municipal Corporation with its principle place of business at 200 H Street, Antioch, CA 94509 ("**City**") and _____ with its principle place of business at _____ ("**Consultant**"). City and Consultant individually are sometimes referred to herein as "**Party**" and collectively as "**Parties**."

SECTION 1. SERVICES. Subject to the terms and conditions set forth in this Agreement, Consultant shall furnish all technical and professional services including labor, material, equipment, transportation, supervision and expertise to provide to City the services described in the Scope of Work attached as Exhibit A attached hereto and incorporated herein at the time and place and in the manner specified therein ("**Services**"). In the event of a conflict in or inconsistency between the terms of this Agreement and Exhibit A, the Agreement shall prevail.

1.1 Term of Services. The term of this Agreement shall begin on the Effective Date and shall end on _____, the date of completion specified in Exhibit A, and Consultant shall complete the Services described in Exhibit A prior to that date, unless the term of the Agreement is otherwise terminated or extended, as provided for in Section 8. The time provided to Consultant to complete the Services required by this Agreement shall not affect the City's right to terminate the Agreement, under Section 8.

1.2 Standard of Performance. Consultant represents that it is experienced in providing these services to public clients and is familiar with the plans and needs of City. Consultant shall perform all Services required pursuant to this Agreement in the manner and according to the standards observed by a competent practitioner of the profession in which Consultant is engaged in the geographical area in which Consultant practices its profession.

1.3 Assignment of Personnel. Consultant shall assign only competent personnel to perform Services pursuant to this Agreement. In the event that City, in its sole discretion, at any time during the term of this Agreement, desires the reassignment of any such persons, Consultant shall, immediately upon receiving notice from City of such desire of City, reassign such person or persons.

1.4 Time. Consultant shall devote such time to the performance of Services pursuant to this Agreement as may be reasonably necessary to meet the standard of performance provided in Section 1.1 above and to satisfy Consultant's obligations hereunder.

SECTION 2. COMPENSATION. City hereby agrees to pay Consultant a sum not to exceed _____, notwithstanding any contrary indications that may be contained in Consultant's proposal, for Services to be performed and reimbursable costs incurred under this Agreement. In the event of a conflict between this Agreement and Consultant's proposal, attached as Exhibit A, regarding the amount of compensation, the Agreement shall prevail. City shall pay Consultant for Services rendered pursuant to this Agreement at the time and in the manner set forth below. The payments specified below

shall be the only payments from City to Consultant for Services rendered pursuant to this Agreement. Except as specifically authorized by City, Consultant shall not bill City for duplicate services performed by more than one person.

Consultant and City acknowledge and agree that compensation paid by City to Consultant under this Agreement is based upon Consultant's estimated costs of providing the Services required hereunder, including salaries and benefits of employees and subcontractors of Consultant. Consequently, the Parties further agree that compensation hereunder is intended to include the costs of contributions to any pensions and/or annuities to which Consultant and its employees, agents, and subcontractors may be eligible. City therefore has no responsibility for such contributions beyond compensation required under this Agreement.

2.1 Invoices. Consultant shall submit invoices, not more often than once a month during the term of this Agreement, based on the cost for Services performed and reimbursable costs incurred prior to the invoice date. Invoices shall contain the following information:

- Serial identifications of progress bills; i.e., Progress Bill No. 1 for the first invoice, etc.;
- The beginning and ending dates of the billing period;
- A Task Summary containing the original contract amount, the amount of prior billings, the total due this period, the balance available under the Agreement, and the percentage of completion;
- At City's option, for each work item in each task, a copy of the applicable time entries or time sheets shall be submitted showing the name of the person doing the work, the hours spent by each person, a brief description of the work, and each reimbursable expense;
- The total number of hours of work performed under the Agreement by Consultant and each employee, agent, and subcontractor of Consultant performing services; and,
- The Consultant's signature.

2.2 Payment Schedule.

2.2.1 City shall make incremental payments, based on invoices received, [according to the payment schedule attached as Exhibit B and incorporated herein], for Services satisfactorily performed, in accordance with the requirements of this Agreement, and for authorized reimbursable costs incurred. City shall have thirty (30) days from the receipt of an invoice that complies with all of the requirements of Section 2.1 to pay Consultant.

2.2.2 City shall pay the last 10% of the total sum due pursuant to this Agreement within sixty (60) days after completion of the services and submittal to City a final invoice, if all services required have been satisfactorily performed.]

2.3 Total Payment. City shall pay for the Services to be rendered by Consultant pursuant to this Agreement. City shall not pay any additional sum for any expense or cost whatsoever incurred by Consultant in rendering Services pursuant to this Agreement, unless expressly provided for in Section 2.5.

In no event shall Consultant submit any invoice for an amount in excess of the maximum amount of compensation provided above either for a task or for the entire Agreement, unless the Agreement is modified prior to the submission of such an invoice by a properly executed change order or amendment.

2.4 Hourly Fees. Fees for work performed by Consultant on an hourly basis shall not exceed the amounts shown on the fee schedule in Exhibit B.

2.5 Reimbursable Expenses. Reimbursable expenses are specified below, and shall not exceed _____ (\$ _____). Expenses not listed below are not chargeable to City. Reimbursable expenses are included in the total amount of compensation provided under this Agreement that shall not be exceeded.

Reimbursable Expenses are:

2.6 Payment of Taxes. Consultant is solely responsible for the payment of employment taxes incurred under this Agreement and any similar federal or state taxes.

2.7 Authorization to Perform Services. The Consultant is not authorized to perform any Services or incur any costs whatsoever under the terms of this Agreement until Consultant receives authorization to proceed from the Contract Administrator.

SECTION 3. FACILITIES AND EQUIPMENT. Except as set forth herein, Consultant shall, at its sole cost and expense, provide all facilities and equipment that may be necessary to perform the Services required by this Agreement. City shall make available to Consultant only the facilities and equipment listed in this section, and only under the terms and conditions set forth herein.

City shall furnish physical facilities such as desks, filing cabinets, and conference space, as may be reasonably necessary for Consultant's use while consulting with City employees and reviewing records and the information in possession of the City. The location, quantity, and time of furnishing those facilities shall be in the sole discretion of City. In no event shall City be obligated to furnish any facility that may involve incurring any direct expense, including but not limited to computer, long-distance telephone or other communication charges, vehicles, and reproduction facilities.

SECTION 4. INSURANCE REQUIREMENTS. Before beginning any work under this Agreement, Consultant, at its own cost and expense, shall procure insurance against claims for injuries to persons or damages to property that may arise from or in connection with the performance of the work by the Consultant and its agents, representatives, employees, and subcontractors. Consultant shall provide proof satisfactory to City of such insurance that meets the requirements of this section and under forms of insurance satisfactory in all respects to the City. Consultant shall maintain the insurance policies required by this section throughout the term of this Agreement. The cost of such insurance shall be included in the Consultant's proposal. Consultant shall not allow any subcontractor to commence work on any subcontract until Consultant has obtained all insurance required herein for the subcontractor(s) and provided evidence thereof to City. Verification of the required insurance shall be submitted and made part of this Agreement.

prior to execution. Insurers shall have an AM Best rating of no less than A:VII unless otherwise accepted by the City in writing:

4.1 Commercial General Liability (CGL): Insurance Services Office Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than **\$2,000,000** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. If Consultant's services include work within 50 feet of a railroad right of way, the Consultant shall have removed any exclusion on their liability policy limiting coverage for work near a railroad, or shall provide a Railroad Protective Liability policy in favor of the City. Limits for such coverage shall be no less than \$5,000,000.

4.2 Automobile Liability Insurance. ISO Form Number CA 00 01 covering any auto (Code 1), or if Consultant has no owned autos, hired, (Code 8) and non-owned autos (Code 9), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.

4.3 Workers' Compensation Insurance. as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.

4.4 Professional Liability (Errors and Omissions): Insurance appropriate to the Consultant's profession, with limit no less than \$1,000,000 per occurrence or claim, \$2,000,000 aggregate.

4.5 Other Insurance Provisions. Unless otherwise specified below, all insurance policies are to contain, or be endorsed to contain, the following provisions:

4.5.1 *Additional Insured Status.* The City, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts, or equipment furnished in connection with such work or operations. CGL coverage can be provided in the form of an endorsement to the Consultant's insurance (at least as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of both CG 20 10 and CG 20 37 if a later edition is used). This requirement shall only apply to the CGL and Automobile Liability Insurance policies specified above.

4.5.2 *Primary Coverage.* For any claims related to this contract, the Consultant's insurance coverage shall be primary insurance as respects the City, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the City, its officers, officials, employees, or volunteers shall be excess of the Consultant's insurance and shall not contribute with it. This requirement shall only apply to the CGL and Automobile Liability Insurance policies specified above.

4.5.3 *Notice of Cancellation.* Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the City.

4.5.4 *Waiver of Subrogation.* Consultant hereby grants to City a waiver of any right to subrogation which any insurer of said Consultant may acquire against the City by virtue of the payment of any loss under such insurance. Consultant agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the City has received a waiver of subrogation endorsement from the insurer. This requirement shall only apply to the

CGL, Automobile Liability and Workers' Compensation/Employer's Liability Insurance policies specified above.

4.5.5 *Deductibles and Self-Insured Retentions.* Any deductibles or self-insured retentions must be declared to and approved by the City. The City may require the Consultant to purchase coverage with a lower deductible or retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

4.5.6 *Claims made policies.* If any of the required policies provide claims-made coverage:

4.5.6.1 The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.

4.5.6.2 Insurance must be maintained and evidence of insurance must be provided **for at least five (5) years after completion of the contract of work.**

4.5.6.3 If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the Consultant must purchase "extended reporting" coverage for a minimum of five (5) years after completion of contract work.

4.6 Certificate of Insurance and Endorsements. Consultant shall furnish the City with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the City before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

4.7 Subcontractors. Consultant shall include all subcontractors as insured under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated in this Agreement, including but not limited to naming additional insureds.

4.8 Higher Limits. If the Consultant maintains higher limits than the minimums shown above, the City requires and shall be entitled to coverage for the higher limits maintained by the Consultant. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the City.

4.9 Special Risks or Circumstances. City reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage or other special circumstances.

4.10 Remedies. In addition to any other remedies City may have if Consultant fails to provide or maintain any insurance policies or policy endorsements to the extent and within the time herein required, City may, at its sole option exercise, any of the following remedies, which are alternatives to other remedies City may have and are not the exclusive remedy for Consultant's breach:

- Obtain such insurance and deduct and retain the amount of the premiums for such insurance from any sums due to Consultant under the Agreement;
- Order Consultant to stop work under this Agreement or withhold any payment that becomes due to Consultant hereunder, or both stop work and withhold any payment, until Consultant demonstrates compliance with the requirements hereof; and/or,
- Terminate this Agreement.

SECTION 5. INDEMNIFICATION AND CONSULTANT'S RESPONSIBILITIES.

5.1 To the fullest extent permitted by law, Consultant shall defend (with counsel reasonably acceptable to City), indemnify and hold the City, its officials, officers, employees, volunteers, and agents free and harmless from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage or injury of any kind, in law or equity, to property or persons, including wrongful death, in any manner arising out of, pertaining to, or incident to any acts, errors or omissions, or willful misconduct of Consultant, its officials, officers, employees, subcontractors, consultants or agents in connection with the performance of the Consultant's services or this Agreement, including without limitation the payment of all damages, expert witness fees and attorney's fees and other related costs and expenses. Consultant's obligation to indemnify shall not be restricted to insurance proceeds, if any, received by Consultant, the City, its officials, officers, employees, agents, or volunteers.

5.1.1 Acceptance by City of insurance certificates and endorsements required under this Agreement does not relieve Consultant from liability under this indemnification and hold harmless clause. This indemnification and hold harmless clause shall apply to any damages or claims for damages whether or not such insurance policies shall have been determined to apply.

5.2 By execution of this Agreement, Consultant acknowledges and agrees to the provisions of this Section and that it is a material element of consideration, and that these provisions survive the termination of this Agreement.

SECTION 6. STATUS OF CONSULTANT.

6.1 Independent Contractor. At all times during the term of this Agreement, Consultant shall be an independent contractor and shall not be an employee of City. City shall have the right to control Consultant only insofar as the results of Consultant's services rendered pursuant to this Agreement and assignment of personnel pursuant to Section 1.3; however, otherwise City shall not have the right to control the manner or means by which Consultant accomplishes services rendered pursuant to this Agreement. Notwithstanding any other City, state, or federal policy, rule, regulation, law, or ordinance to the contrary, Consultant and any of its employees, agents, and subcontractors providing services under this Agreement shall not qualify for or become entitled to, and hereby agree to waive any and all claims to, any compensation, benefit, or any incident of employment by City, including, but not limited to, eligibility to enroll in the California Public Employees Retirement System (PERS) as an employee of City and entitlement to any contribution to be paid by City for employer contributions and/or employee contributions for PERS benefits.

6.2 Consultant Not Agent. Except as City may specify in writing, Consultant shall have no authority, express or implied, to act on behalf of City in any capacity whatsoever as an agent. Consultant

shall have no authority, express or implied, pursuant to this Agreement to bind City to any obligation whatsoever.

SECTION 7. LEGAL REQUIREMENTS.

7.1 Governing Law. The laws of the State of California shall govern this Agreement.

7.2 Compliance with Applicable Laws. Consultant and any subcontractors shall comply with all laws applicable to the performance of the Services.

7.3 Other Governmental Regulations. To the extent that this Agreement may be funded by fiscal assistance from another governmental entity, Consultant and any subcontractors shall comply with all applicable rules and regulations to which City is bound by the terms of such fiscal assistance program.

7.4 Licenses and Permits. Consultant represents and warrants to City that Consultant and its employees, agents, and any subcontractors have all licenses, permits, qualifications, and approvals of whatsoever nature that are legally required to practice their respective professions. Consultant represents and warrants to City that Consultant and its employees, agents, any subcontractors shall, at their sole cost and expense, keep in effect at all times during the term of this Agreement any licenses, permits, and approvals that are legally required to practice their respective professions. In addition to the foregoing, Consultant and any subcontractors shall obtain and maintain during the term of this Agreement valid business licenses from City.

7.5 Nondiscrimination and Equal Opportunity. Consultant shall not discriminate, on the basis of a person's race, religion, color, national origin, age, physical or mental handicap or disability, medical condition, marital status, sex, sexual orientation or any other legally protected status, against any employee, applicant for employment, subcontractor, bidder for a subcontract, or participant in, recipient of, or applicant for any services or programs provided by Consultant under this Agreement. Consultant shall comply with all applicable federal, state, and local laws, policies, rules, and requirements related to equal opportunity and nondiscrimination in employment, contracting, and the provision of any Services that are the subject of this Agreement, including but not limited to the satisfaction of any positive obligations required of Consultant thereby.

Consultant shall include the provisions of this Section in any subcontract approved by the Contract Administrator or this Agreement.

7.6 California Labor Code Requirements. Consultant is aware of the requirements of California Labor Code Sections 1720 et seq. and 1770 et seq., which require the payment of prevailing wage rates and the performance of other requirements on certain "public works" and "maintenance" projects ("Prevailing Wage Laws"). If the services are being performed as part of an applicable "public works" or "maintenance" project, as defined by the Prevailing Wage Laws, and if the total compensation is \$1,000 or more, Consultant agrees to fully comply with such Prevailing Wage Laws. Consultant shall defend, indemnify and hold the City, its officials, officers, employees and agents free and harmless from any claims, liabilities, costs, penalties or interest arising out of any failure or alleged failure to comply with the Prevailing Wage Laws. It shall be mandatory upon the Consultant and all subconsultants to comply with all California Labor Code provisions, which include but are not limited to prevailing wages (Labor Code Sections 1771, 1774 and 1775), employment of apprentices (Labor Code Section 1777.5), certified payroll records (Labor Code Sections 1771.4 and 1776), hours of labor (Labor Code Sections 1813 and 1815) and

debarment of contractors and subcontractors (Labor Code Section 1777.1). The requirement to submit certified payroll records directly to the Labor Commissioner under Labor Code section 1771.4 shall not apply to work performed on a public works project that is exempt pursuant to the small project exemption specified in Labor Code Section 1771.4.

If the services are being performed as part of an applicable "public works" or "maintenance" project, then pursuant to Labor Code Sections 1725.5 and 1771.1, the Consultant and all subconsultants performing such services must be registered with the Department of Industrial Relations. Consultant shall maintain registration for the full term of this Agreement and require the same of any subconsultants, as applicable. Notwithstanding the foregoing, the contractor registration requirements mandated by Labor Code Sections 1725.5 and 1771.1 shall not apply to work performed on a public works project that is exempt pursuant to the small project exemption specified in Labor Code Sections 1725.5 and 1771.1.

This Agreement may also be subject to compliance monitoring and enforcement by the Department of Industrial Relations. It shall be Consultant's sole responsibility to comply with all applicable registration and labor compliance requirements. Any stop orders issued by the Department of Industrial Relations against Consultant or any subcontractor that affect Consultant's performance of services, including any delay, shall be Consultant's sole responsibility. Any delay arising out of or resulting from such stop orders shall be considered Consultant caused delay and shall not be compensable by the City. Consultant shall defend, indemnify and hold the City, its officials, officers, employees and agents free and harmless from any claim or liability arising out of stop orders issued by the Department of Industrial Relations against Consultant or any subcontractor.

SECTION 8. TERMINATION AND MODIFICATION.

8.1 Termination. City may cancel this Agreement at any time and without cause upon written notification to Consultant.

Consultant may cancel this Agreement only for cause upon thirty (30) days' written notice to City and shall include in such notice the reasons for cancellation.

In the event of termination, Consultant shall be entitled to compensation for Services performed satisfactorily to the effective date of termination; City, however, may condition payment of such compensation upon Consultant delivering to City any or all documents, photographs, computer software, video and audio tapes, and other materials provided to Consultant or prepared by or for Consultant or the City in connection with this Agreement.

8.2 Extension. City may, in their sole and exclusive discretion, extend the end date of the term of this Agreement beyond that provided for in Section 1.1. Any such extension shall require a written amendment to this Agreement, as provided for herein. Consultant understands and agrees that, if City grants such an extension, City shall have no obligation to provide Consultant with compensation beyond the maximum amount provided for in this Agreement. Similarly, unless authorized by the Contract Administrator, City shall have no obligation to reimburse Consultant for any otherwise reimbursable expenses incurred during the extension period.

8.3 Amendments. The parties may amend this Agreement only by a writing signed by all the Parties.

8.4 Assignment and Subcontracting. City and Consultant recognize and agree that this Agreement contemplates personal performance by Consultant and is based upon a determination of Consultant's unique personal competence, experience, and specialized personal knowledge. Moreover, a substantial inducement to City for entering into this Agreement was and is the professional reputation and competence of Consultant. Consultant may not assign this Agreement or any interest therein without the prior written approval of the Contract Administrator. Consultant shall not subcontract any portion of the performance contemplated and provided for herein, other than to the subcontractors noted in the proposal, without prior written approval of the Contract Administrator.

8.5 Survival. All obligations arising prior to the termination of this Agreement and all provisions of this Agreement allocating liability between City and Consultant shall survive the termination of this Agreement.

8.6 Options upon Breach by Consultant. If Consultant materially breaches any of the terms of this Agreement, City's remedies shall include, but not be limited to, the following:

8.6.1 Immediately terminate the Agreement;

8.6.2 Retain the plans, specifications, drawings, reports, design documents, and any other work product prepared by Consultant pursuant to this Agreement; and/or

8.6.3 Retain a different consultant to complete the work described in Exhibit A not finished by Consultant in which case the City may charge Consultant the difference between the cost to have a different consultant complete the work described in Exhibit A that is unfinished at the time of breach and the amount that City would have paid Consultant pursuant to Section 2 if Consultant had completed the work.

SECTION 9. KEEPING AND STATUS OF RECORDS.

9.1 Records Created as Part of Consultant's Performance. All reports, data, maps, models, charts, studies, surveys, photographs, memoranda, plans, studies, specifications, drawings, records, files, or any other documents or materials, in electronic or any other form, that Consultant prepares or obtains pursuant to this Agreement and that relate to the matters covered hereunder shall be the property of the City. Consultant hereby agrees to deliver those documents to the City upon termination of the Agreement. It is understood and agreed that the documents and other materials, including but not limited to those described above, prepared pursuant to this Agreement are prepared specifically for the City and are not necessarily suitable for any future or other use.

9.2 Confidentiality. All reports, data, maps, models, charts, studies, surveys, photographs, memoranda, plans, studies, specifications, records, files, or any other documents or materials, in electronic or any other form, that Consultant prepares or obtains pursuant to this Agreement and that relate to the matters covered hereunder shall be kept confidential by Consultant. Such materials shall not, without the prior written permission of City, be used by Consultant for any purpose other than the performance of this Agreement nor shall such materials be disclosed publicly. Nothing furnished to Consultant which is generally known, shall be deemed confidential. Consultant shall not use the City's name or logo or photographs pertaining to the Services under this Agreement in any publication without the prior written consent of the City.

9.3 Consultant's Books and Records. Consultant shall maintain any and all ledgers, books of account, invoices, vouchers, canceled checks, and other records or documents evidencing or relating to charges for Services or expenditures and disbursements charged to the City under this Agreement for a minimum of three (3) years, or for any longer period required by law, from the date of final payment to the Consultant..

9.4 Inspection and Audit of Records. Any records or documents that Section 9.2 of this Agreement requires Consultant to maintain shall be made available for inspection, audit, and/or copying at any time during regular business hours, upon oral or written request of the City. Under California Government Code Section 8546.7, if the amount of public funds expended under this Agreement exceeds Ten Thousand Dollars (\$10,000.00), the Agreement shall be subject to the examination and audit of the State Auditor, at the request of City or as part of any audit of City, for a period of three (3) years after final payment under the Agreement.

9.5 Intellectual Property. The City shall have and retain all right, title and interest, including copyright, patent, trade secret or other proprietary rights in all plans, specifications, studies, drawings, estimates, materials, data, computer programs or software and source code, enhancements, documents and any other works of authorship fixed in any tangible medium or expression, including but not limited to physical drawings or other data magnetically or otherwise recorded on computer media ("Intellectual Property") prepared or developed by or on behalf of Consultant under this Agreement. Consultant further grants to City a non-exclusive and perpetual license to copy, use, modify or sub-license any and all Intellectual Property otherwise owned by Consultant which is the basis or foundation for any derivative, collective, insurrectional or supplemental work created under this Agreement.

SECTION 10. MISCELLANEOUS PROVISIONS.

10.1 Venue. In the event either party brings any action against the other under this Agreement, the Parties agree that trial of such action shall be vested exclusively in the state courts of California in the County of Contra Costa or in the United States District Court for the Northern District of California.

10.2 Severability. If a court of competent jurisdiction finds or rules that any provision of this Agreement is invalid, void, or unenforceable, the provisions of this Agreement not so adjudged shall remain in full force and effect. The invalidity in whole or in part of any provision of this Agreement shall not void or affect the validity of any other provision of this Agreement.

10.3 No Implied Waiver of Breach. The waiver of any breach of a specific provision of this Agreement does not constitute a waiver of any other breach of that term or any other term of this Agreement.

10.4 Successors and Assigns. The provisions of this Agreement shall inure to the benefit of and shall apply to and bind the successors and assigns of the Parties.

10.5 Use of Recycled Products. Consultant shall prepare and submit all reports, written studies and other printed material on recycled paper to the extent it is available at equal or less cost than virgin paper.

10.6 Conflict of Interest. Consultant may serve other clients, but none whose activities within the corporate limits of City or whose business, regardless of location, would place Consultant in a "conflict

of interest,” as that term is defined in the Political Reform Act, codified at California Government Code Section 81000 *et seq.*

Consultant shall not employ any official of City in the work performed pursuant to this Agreement. No officer or employee of City shall have any financial interest in this Agreement that would violate California Government Code Section 1090 *et seq.*

Consultant hereby warrants that it is not now, nor has it been in the previous twelve (12) months, an employee, agent, appointee, or official of the City. If Consultant was an employee, agent, appointee, or official of City in the previous twelve months, Consultant warrants that it did not participate in any manner in the forming of this Agreement. Consultant understands that, if this Agreement is made in violation of Government Code § 1090 *et. seq.*, the entire Agreement is void and Consultant will not be entitled to any compensation for Services performed pursuant to this Agreement, including reimbursement of expenses, and Consultant will be required to reimburse the City for any sums paid to the Consultant. Consultant understands that, in addition to the foregoing, it may be subject to criminal prosecution for a violation of Government Code Section 1090 and, if applicable, will be disqualified from holding public office in the State of California.

10.7 Inconsistent Terms. If the terms or provisions of this Agreement conflict with or are inconsistent with any term or provision of any Exhibit attached hereto, then the terms and provisions of this Agreement shall prevail.

10.8 Solicitation. Consultant agrees not to solicit business at any meeting, focus group, or interview related to this Agreement, either orally or through any written materials.

10.9 Contract Administration. This Agreement shall be administered by [REDACTED] ("Contract Administrator"). All correspondence shall be directed to or through the Contract Administrator or his or her designee.

10.10 Notices. Any written notice to Consultant shall be sent to:

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Any written notice to City shall be sent to:

[INSERT DEPARTMENT/NAME]

City of Antioch
P. O. Box 5007
Antioch, CA 94531-5007

City of Antioch
P. O. Box 5007
Antioch, CA 94531-5007
Attn: City Attorney

10.11 Integration. This Agreement, including all exhibits and other attachments, represents the entire and integrated agreement between City and Consultant and supersedes all prior negotiations, representations, or agreements, either written or oral.

CITY:

CITY OF ANTIOCH

Rowland E. Bernal, Jr. City Manager

Attest:

Elizabeth Householder, City Clerk

Approved as to Form:

Thomas Lloyd Smith, City Attorney

CONSULTANT:

[NAME OF CONSULTANT]

By:_____

Name:_____

Title:_____

By:_____

Name:_____

Title:_____

[Two signatures are required for a corporation or one signature with the corporate bylaws indicating that one person can sign on behalf of the corporation]

EXHIBIT A
SCOPE OF WORK

EXHIBIT B
PAYMENT SCHEDULE