PHASE II ENVIRONMENTAL SITE ASSESSMENT

SEPTEMBER 2010

5844 BANCROFT AVENUE OAKLAND, CALIFORNIA

Prepared for:

City of Oakland, Public Works Agency Environmental Services Division Oakland, California

Y8359-07.01571

ENVIRONMENTAL CONSULTING

17 September 2010 Y8359-07.01571

Mr. Mark Arniola, P.G. City of Oakland, Public Works Agency 250 Frank H. Ogawa Plaza, Suite 5301 Oakland, CA 94612

Subject: Phase II Environmental Site Assessment, 5844 Bancroft Avenue, Oakland, California

Dear Mr. Arniola:

Please find enclosed our report documenting the activities and finding of a Phase II Environmental Site Assessment ("ESA") performed at a property located at 5844 Bancroft Avenue in Oakland, California. The property is one of 12 properties that make up the Foothill Boulevard/Seminary Avenue Redevelopment Area. The Phase II ESA was performed under a Community-Wide Brownfield Assessment grant from the U.S. Environmental Protection Agency in accordance with the Sampling and Analysis Plan, 5844 Bancroft Avenue Oakland, California, dated June 2010.

If you have any questions or comments, please contact us at your convenience.

No. 4009

Sincerely,

Vane Nordhay

Principal

Professional Geologist No. 4009

Reginald Panning

Reginald Ramirez

Project Engineer

Professional Engineer C 72258

YN:RR:km

cc:

Wallace Woo, U.S. EPA

Eugenia E. McNaughton, Ph.D., U.S. EPA

Enclosure

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APPROVAL PAGE

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Approved by:	Reginald Faming Reginald Ramirez, P.E., Project Manager BASELINE	9-17-10 Date
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ACRONYMS AND ABBREVIATIONS

ACPWA Alameda County Public Works Agency BASELINE BASELINE Environmental Consulting

bgs below ground surface City City of Oakland

Clearwater Environmental Management, Inc. EPA U.S. Environmental Protection Agency

ESA Environmental Site Assessment

ESLs Regional Water Board Environmental Screening Levels

HSP Health and Safety Plan mg/kg milligram per kilogram PID Photoionization Detector

ppm parts per million

Regional Water Board San Francisco Bay Regional Water Quality Control Board

EPA Regional Screening Level RSL **SAP** Sampling and Analysis Plan Sanborn Maps Sanborn Fire Insurance Maps TPH Total Petroleum Hydrocarbon TPH in the gasoline range TPH-g TPH-d TPH in the diesel range TPH in the motor oil range TPH-mo **VOC** Volatile Organic Compound

PHASE II ENVIRONMENTAL SITE ASSESSMENT 5844 Bancroft Avenue Oakland, California

1.0 INTRODUCTION

This report documents the activities and findings of a Phase II Environmental Site Assessment ("ESA") performed by BASELINE Environmental Consulting ("BASELINE"), on behalf of the City of Oakland, Public Works Agency ("City"), at a property located at 5844 Bancroft Avenue in Oakland, California ("Project Site") (Figures 1 and 2). The Project Site is one of 12 properties that make up the Foothill Boulevard/Seminary Avenue Redevelopment Area (Figure 2) which the City is proposing to redevelop into a mixed-use retail center. The Phase II ESA was performed under a Community-Wide Brownfield Assessment grant from the U.S. Environmental Protection Agency ("EPA") in accordance with Sampling and Analysis Plan, 5844 Bancroft Avenue Oakland, California ("SAP"), prepared by BASELINE, dated June 2010. The draft SAP was approved by the EPA Region IX in a memorandum dated 11 June 2010. Deviations from the SAP are discussed in Section 11, Field Variances, of this report.

The purpose of the Phase II ESA was to assess potential soil or groundwater impacts at the Project Site based on previous land uses in the vicinity that were associated with hazardous materials, including dry cleaner facilities, an auto repair garage, and a gasoline service station (BASELINE, 2009). The Phase II ESA was performed to provide information on the potential presence of contaminants in soil or groundwater underlying the Project Site that could pose a significant health risk to future users based on the proposed land use. Specifically, the Phase II ESA was performed to provide information for the following questions:

- Does the soil at the Project Site contain total petroleum hydrocarbons ("TPH") or volatile organic compounds ("VOCs") at concentrations that would pose a threat to future construction workers?
- Does the soil at the Project Site contain TPH or VOCs at concentrations that would indicate a potential vapor intrusion concern in future buildings on the Project Site?
- Does the groundwater at the Project Site contain TPH or VOCs at concentrations that would indicate a potential vapor intrusion concern in future buildings on the Project Site?

To obtain the information needed, the *SAP* proposed to: 1) collect soil and groundwater samples from the Project Site and analyze for TPH and VOCs; and 2) screen analytical results against screening values developed by the California Regional Water Quality Control Board, San Francisco Bay Region ("Regional Water Board") or the EPA. Based on the findings of the Phase II ESA, conclusions regarding the potential risk to construction workers and future users of the Project Site were developed.

-1-

¹ The Phase II ESA assumed that the proposed redevelopment project would require excavations at the Project Site and that a building would be constructed on the Project Site. At the time the Phase II ESA was performed, the proposed redevelopment project was in the planning stage and engineering designs had not been prepared.

1.1 Project Site

The City is planning to redevelop the Foothill Boulevard/Seminary Avenue Redevelopment Area into a mixed-use area that will include housing and retail space (Figure 2). The Foothill Boulevard/Seminary Avenue Redevelopment Area is bounded by Foothill Boulevard to the north, Seminary Avenue to the east, Bancroft Avenue to the south, and private properties to the west (Figure 2). The two-acre Foothill Boulevard/Seminary Avenue Redevelopment Area is made up of 12 properties that have been used for various commercial activities, including a dry cleaner and an auto repair garage (BASELINE, 2009) (Figure 2). These land uses likely involved storage, use, and/or disposal of hazardous materials such as solvents, degreasers, fuels, and other petroleum-based products.

The Project Site is a single parcel with a surface area of 3,238 square feet located in Alameda County, California. The Alameda County Assessor's Office identified the Project Site as Parcel No. 038-3182-005. The Project Site is located at 5844 Bancroft Avenue in the City of Oakland between Avenal and Seminary avenues. The eastern portion of the Project Site contains a triangular single-story building with a floor area of 1,481 square feet (Figure 2). The western portion of the Project Site is vacant and covered with vegetation; a chain link fence secures this portion of the Project Site (Figure 2). The Project Site is bordered by a former auto repair garage to the northeast, a vacant lot to the north, and Bancroft Avenue to the south (Figure 2).

1.2 Project Proponent and Consultant

The City is the agency responsible for managing the Community-Wide Brownfield Assessment grant and environmental assessments performed under the grant. The EPA provides technical review and advice to the City and ensures that assessments performed under the Community-Wide Brownfield Assessment grant meet EPA requirements.

The City retained BASELINE to perform an environmental assessment in accordance with the requirements of the EPA Brownfields program. BASELINE is a multi-disciplinary environmental consulting firm established in 1985; its professional staff consists of engineers, geologists, and hydrogeologists. BASELINE retained RSI Drilling, a California-licensed driller, to advance proposed borings; Curtis & Tompkins, Ltd, a California-certified analytical laboratory, to perform analyses on samples collected from the Project Site; and Clearwater Environmental Management, Inc. ("Clearwater") to dispose of soil and water wastes derived during the field investigation.

2.0 BACKGROUND

2.1 Operational History and Previous Investigation

The following information on site history and previous investigations is based on a Phase I ESA performed by BASELINE for the Project Site in 2009 (BASELINE, 2009).

Historical land uses at the Project Site were determined through review of Sanborn Fire Insurance Maps ("Sanborn Maps") and aerial photographs. Information obtained from these land use resources were verified using City directory information. Current land use at the Project Site was determined through a visual reconnaissance of the site.

The Project Site appeared vacant on Sanborn Maps from 1912 and 1925, the earliest Sanborn Maps available for the Project Site. In 1950, a one-story building, identified as an office, occupied the center portion of the Project Site. The portions of the Project Site to the east and west of the building appeared vacant at this time. The 1950 Sanborn Map identified the center and western portions of the Project Site as 5844 Bancroft Avenue (formerly Bond Street) and the eastern portion of the Project Site as 5850 Bancroft Avenue (Figure 3).

In 1957, the building on the Project Site appeared to have been expanded to the north, as shown on a 1957 Sanborn Map. The 1957 Sanborn Map indicated that the building was still used as an office and the eastern and western portions of the Project Site still appeared vacant. No other change was noted on the Project Site from 1957 through 1969, the latest Sanborn Map available for the Project Site. An aerial photograph from 2005 showed an expanded building on the Project Site that appeared to be consistent with the existing building on the Project Site.

The City directory identified commercial users at 5844 Bancroft Avenue from 1962 through 2006. No user was identified at 5850 Bancroft Avenue. Observations made during reconnaissance of the Project Site identified current use of the Project Site as a barber shop and beauty salon. The Phase I ESA did not find any land use associated with hazardous materials use at the Project Site.

The Phase I ESA identified the following land uses in the vicinity of the Project Site associated with hazardous materials use: 1) former private and commercial garages at an adjoining property to the Project Site; 2) a former dry cleaning facility at another adjoining property to the Project Site; 3) eight sites upgradient from the Project Site listed on a database associated with dry cleaners; and 4) five sites upgradient from the Project Site listed on databases associated with auto repair facilities and gasoline service stations. Based on the findings of the Phase I ESA, further assessment of the Project Site was recommended to determine whether soil or groundwater underneath the Project Site had been impacted by petroleum hydrocarbons or VOCs. No other environmental investigations have been performed at the Project Site.

2.2 Geological Information

Based on soil stratigraphy information gathered during this field investigation, the Project Site is underlain by stiff fine-grained materials consisting predominantly of clay with intermittent layers of coarse-grained materials consisting of sand and gravel to 21 feet below ground surface ("bgs"), the maximum depth explored. Groundwater was not encountered in borings advanced during the field investigation. The boring logs from the borings indicate that at 14 feet bgs, the moisture of the soil varied from "very moist" to "wet." This may suggest a seasonal shallow groundwater table. Based on the topography in the vicinity of the Project Site, groundwater (which may flow underneath the Project Site during the wet season) would be expected to flow to the southwest toward a creek. Logs for borings advanced during the field investigation are included in Appendix A.

2.3 Impact on Human Health and/or the Environment

At the time the Phase II ESA was performed, there was no known documentation of chemical contamination in the immediate vicinity of the Project Site. However, the Phase I investigation

performed by BASELINE identified land uses associated with operation of dry cleaning facilities, auto repair facilities, and gasoline service stations at properties within one-quarter mile of the Project Site. Operation of a dry cleaning facility, auto repair facility, or gasoline service station could affect soil and groundwater quality in the vicinity if hazardous materials, such as solvents and fuels, were not managed or disposed of properly. If releases of hazardous materials had occurred at any of those sites that used, stored, or disposed of hazardous materials, the releases could migrate horizontally via groundwater flow and affect soil and groundwater quality at the Project Site. Contaminants in soil, if present, could pose a health risk to construction workers during redevelopment activities through direct exposure to soil. A solvent plume, if present underneath the Project Site, could pose a health risk to future commercial and residential users as VOCs evaporate and migrate through voids in soil and cracks in building foundations, adversely affecting indoor air quality in overlying structures.

3.0 FIELD ACTIVITIES

3.1 Preparation for Field Activities

Prior to field activities, BASELINE obtained a boring permit from the Alameda County Public Works Agency ("ACPWA") and contacted Underground Service Alert to mark underground utilities at the Project Site. A copy of the boring permit is included in Appendix B.

3.2 Field Screening

Prior to sampling, BASELINE calibrated a photoionization detector ("PID") to 100 parts per million ("ppm") isobutylene in accordance with manufacturer's specifications. The sensitivity of the PID was set to benzene. No calibration problems were observed. Calibration information was recorded on the daily field log included in Appendix C (see Section 4.0, Field Documentation for other information included in the daily field log).

3.3 Soil Sampling and Field Screening

On 18 August 2010, RSI Drilling advanced two borings (B-01 and B-02 on Figure 3) on the Project Site using a direct-push drill rig (see Photographs 1 and 7 in Appendix C). No visible sign of potential contamination was observed at the Project Site. Therefore, the locations of the borings were spaced equally across the Project Site to provide maximum coverage while minimizing cost. The locations of the borings, including field-measured distances from fixed reference points, are shown on Figure 3.

A limited-access rig was used to advance boring B-02 because the boring was located inside the existing building. Prior to boring advancement at boring B-02, RSI Drilling cored through the concrete floor using a concrete corer (see Photograph 8 in Appendix C). Boring advancement was performed under the direct supervision of a BASELINE Professional Geologist. Soil samples were collected from both borings using new four-foot long 1.25-inch clear dual-tube plastic liners. The four-foot long liners were initially advanced into the ground at four-foot intervals. Because the four-foot long liners were being filled with soil displaced by the outer barrel, over three feet of recovery was observed in the liners after drilling for only two feet; therefore, sampling was performed at two-foot intervals beginning at 12 feet bgs at boring B-01

and 4 feet bgs at boring B-02 (see Photographs 4 and 6 for boring B-01 and Photographs 11 through 16 for boring B-02 in Appendix C).

Once the target depth interval was reached, the plastic liner was retrieved and the stratigraphy of the soil in the liner was logged by BASELINE in accordance with the Unified Soil Classification System (see Section 5.0, Sample Containers, Packaging, and Shipping, for a discussion of samples retained for chemical analysis).

Boring B-01 was advanced to 20 feet bgs, six feet below where "wet" soil was observed. Boring B-02 was advanced to 16 feet bgs, where the limited-access rig encountered refusal (Figure 3). Logs for borings B-01 and B-02 are included in Appendix A.

Initial screening for the presence of VOCs in soil samples was performed by measuring the organic vapor concentration of soil in the four-foot long liners. If organic vapor concentrations were measured over 1.0 ppm, additional screening would be performed by placing the affected soil in a new ziplock bag and measuring the organic vapor concentration. The PID did not detect organic vapor compounds in soil samples from borings B-01 and B-02 above 0.1 ppm; therefore, additional screening for VOCs was not performed. The results of the field screening are documented on boring logs included in Appendix A.

3.4 Groundwater Sampling

In accordance with the *SAP*, the borings would be advanced to a minimum of five feet below first-encountered groundwater. Very moist soils were observed at 14 feet bgs in boring B-01, (see boring logs in Appendix A); however, at 20 feet bgs, groundwater had not accumulated in the boring. To increase the potential for groundwater accumulation in the boring, the outer barrels were removed and the boring was over-drilled to 21 feet bgs with a four-inch diameter hollow-stem auger to remove any potential clay smearing on the boring walls. Once the target depth was reached, a temporary well point consisting of blank PVC casings and five feet of 0.010-inch slotted screen casing was lowered into the boring. The hollow-stem augers were removed after the temporary well point had been installed.

Boring B-02 was advanced to 16 feet bgs, where the limited-access rig encountered refusal. This boring was not over-drilled because the limited-access rig did not have the capability to advance hollow-stem augers. Similar to boring B-01, the outer barrels were removed after a temporary well point had been installed in the boring.

The temporary wells were left overnight; however, groundwater still did not accumulate in either boring. Due to the lack of groundwater in the upper 21 feet at the Project Site, BASELINE was unable to collect groundwater samples during the field investigation.

3.5 Decontamination Procedures

Sampling equipment that came in contact with soil (the outer barrel of the dual-tube sampler and extension rods) was decontaminated in between boring advancement inside a 55-gallon drum using a steam cleaner. Rinsate water generated during the field investigation was contained in the 55-gallon drum and temporarily stored on a City-owned property near the Project Site

pending receipt of analytical results (see Section 10, Disposal of Residual Materials, for a discussion of waste management).

4.0 FIELD DOCUMENTATION

4.1 Field Logs

BASELINE documented field activities and observations in field logs included in Appendix C. A field log was prepared for each field day. The field logs were peer reviewed to confirm that correct field procedures were adhered to and that field data are coherent. The field logs contain the following information:

- Calibration information for air monitoring equipment;
- Time of arrival at the Project Site and time of departure from the Project Site;
- Other personnel on the Project Site (e.g., driller and City staff);
- Level of safety protection;
- Weather conditions;
- Grouting procedure; and
- Groundwater level observations.

4.2 Photograph Logs

BASELINE prepared photograph logs for each field day. The photograph logs contain a brief description of subjects and activities photographed during field activities. The photographs and a copy of the photograph logs are included in Appendix C.

5.0 SAMPLE CONTAINERS, PACKAGING, AND SHIPPING

Soil samples at depth intervals of 1.0 to 1.5, 5.0 to 5.5, and 14.0 to 14.5 feet bgs in both borings were cut from the respective four-foot long liners and retained for chemical analyses. The ends of each six-inch soil liner were sealed with Teflon sheets, plastic end caps, and silicone tape, except for the soil sample collected from boring B-01 at the depth interval of 14.0 to 14.5 feet bgs. This soil sample was collected in a new laboratory-provided wide-mouth glass jar.

Soil samples for TPH in the gasoline range ("TPH-g") and VOC analyses were collected as independent and discrete samples by manually pushing Core N' One Capsules into soil located immediately above and below the six-inch liners retained for chemical analysis. Each soil sample for volatile analyses was collected in triplicate (i.e., six Core N' One Capsules in total, three Core N' One Capsules for TPH-g analysis and three Core N' One Capsules for VOC analysis). Each Core N' One Capsule was hermetically sealed with its own cap.

Each soil liner was labeled with the sampler's initials, date and time of collection, and unique sample identification. Each Core N' One Capsule was placed in its original ziplock bag. Each Core N' One ziplock bag was labeled with the sampler's initials, date and time of collection, and unique sample identification. Each triplicate sample (i.e., three Core N' One Capsules for one analysis) was placed in a new ziplock bag. All liners and ziplock bags were placed in a cooler containing ice after labeling.

A duplicate sample was collected from boring B-01 at the depth interval of 14.0 to 14.5 feet bgs. This depth interval is considered a possible seasonal capillary zone due to the high moisture content in the soil (see boring log in Appendix A). Therefore, contaminants would be expected to be present in this zone if groundwater were present. This soil sample was homogenized in a new ziplock bag then transferred into two new wide-mouth glass jars. The duplicate sample was submitted "blind" to the laboratory (sample identified as B-03;14.0-14.5).

Following decontamination of the sampling equipment, BASELINE collected an equipment blank sample (sample identified as B-03) by pouring laboratory-provided deionized water through the tip of the sampler after it had been decontaminated. The equipment blank sample for TPH-g and VOC analyses was collected in six 40-milliliter VOA bottles with hydrochloric acid (three bottles for each analysis). The equipment blank sample for TPH in the diesel ("TPH-d") and motor oil ("TPH-mo") range analysis was collected in two one-liter amber glass bottles with no preservative (see Section 8, Data Quality Evaluation, for a discussion of the analytical results for the equipment blank sample).

Soil cuttings generated during boring advancement were placed in a 55-gallon drum and temporarily stored on a City-owned property near the Project Site pending receipt of analytical results. BASELINE collected a composite soil sample of the soil cuttings in a new glass jar (sample identified as DRUM) (see Section 10, Disposal of Residual Materials, for a discussion of waste management).

BASELINE transported all soil and water samples to Curtis & Tompkins, Ltd. under chain-of-custody procedures on 19 August 2010.

6.0 ANALYTICAL METHODS

All soil samples including the duplicate sample and the equipment blank sample were analyzed for:

- TPH-g in accordance with EPA Method 8015B;
- TPH-d and TPH-mo in accordance with EPA Method 8015B with silica gel clean up; and
- VOCs in accordance with EPA Method 8260B.

The composite soil sample from the soil cuttings was analyzed for Title 22 metals in accordance with EPA Methods 6010B and 7470A. Based on the Title 22 results, the composite sample was subsequently analyzed for soluble chromium by Waste Extraction Test method.

7.0 ANALYTICAL RESULTS

The soil analytical results for TPH-g, TPH-d, TPH-mo, and VOCs are summarized in Tables 1 and 2, respectively. The results for the equipment blank sample and the composite sample from the soil cuttings are discussed in Section 8, Data Quality Evaluation, and Section 10, Disposal of Residual Materials, respectively. Sampling locations are shown on Figure 3. The laboratory reports for samples collected for the Phase II ESA are included in Appendix D.

7.1 Petroleum Hydrocarbons

The seven soil samples, including the duplicate sample, did not contain TPH-g at or above laboratory reporting limits (Table 1). Out of the seven soil samples, five contained TPH-d (up to 4.2 milligrams per kilogram ["mg/kg"]) and one contained TPH-mo (8.1 mg/kg) above laboratory reporting limits (Table 1). The laboratory report indicated that the chromatographic pattern of the five soil samples containing TPH-d did not resemble the diesel standard (Table 1).

7.2 Volatile Organic Compounds

The seven soil samples, including the duplicate sample, did not contain VOCs at or above laboratory reporting limits or method detection limits, where applicable, except for acetone which was identified above laboratory reporting limits in five samples (Table 2). The laboratory report indicated that the contaminant was from the Core N' One Capsules and not from the Project Site.

8.0 DATA QUALITY EVALUATION

This section presents an evaluation of data quality indicators (i.e., precision, accuracy, representativeness, completeness, and comparability) for field and laboratory measurements to determine the viability and usability of the data.

8.1 Precision

Precision is a measure of the reproducibility of data when multiple samples are collected and analyzed under the same set of conditions. In accordance with the *SAP* for the Project Site, BASELINE collected a field duplicate sample from boring B-01 at a depth interval of 14.0 to 14.5 feet bgs to assess field sampling precision and possible sample heterogeneity. The soil sample was homogenized in the field prior to placing the soil sample into two sampling containers. One sample was identified as the standard sample (B-01;14.0-14.5) and the other sample was provided with a fictitious identification (B-03;14.0-14.5). The standard and field duplicate samples were collected following the same sampling technique and analyzed by one analytical laboratory for the same analytical suite.

The standard sample and the field duplicate sample did not contain any target compounds at or above laboratory reporting limits or method detection limits, where applicable, except for acetone, which was identified in the standard sample and not in the duplicate sample (Table 3). The laboratory report indicated that the contaminant was indiscriminately present in the sampling containers and not from the Project Site (Appendix D). Therefore, the measurements performed on the standard and field duplicate samples were reproducible and the sampling technique employed in collecting soil samples did not affect the reproducibility of the data.

Laboratory precision is measured using laboratory quality control samples (e.g., blank spike, blank spike duplicate, matrix spike, and matrix spike duplicate). BASELINE reviewed the laboratory report for completeness and accuracy. The review indicated that the recoveries in laboratory quality control samples were within limits and the relative percent differences between the spikes and spike duplicates were within limits. The review of the laboratory report is documented in the Quality Control Checklist for Review of Laboratory Report included in Appendix D.

8.2 Accuracy

Accuracy is the difference between a measured value and an accepted reference or true value. In accordance with the *SAP* for the Project Site, BASELINE collected an equipment blank sample (B-03) in between boring advancement. The equipment blank sample did not contain any target compounds at or above laboratory reporting limits or method detection limits, where applicable. Therefore, the compounds identified in soil samples are not considered biased and the sampling process did not introduce any contaminants into samples.

The accuracy of laboratory data are evaluated using laboratory quality control samples (e.g., laboratory control spike, blank spike, blank spike duplicate, matrix spike, matrix spike duplicate, and surrogate spikes) spiked with a known amount of a compound. As mentioned above, the review of the laboratory report indicated that the recoveries in laboratory quality control samples, including surrogate spikes, were within limits.

8.3 Representativeness

Representativeness is the degree to which data accurately and precisely represent an environmental condition. In accordance with the SAP for the Project Site, BASELINE submitted a laboratory-prepared temperature blank to assess temperature-related sample preservation from the field to the laboratory. The acceptance criteria for the temperature blank is $4^{\circ}C \pm 2^{\circ}C$. The laboratory report indicated that the laboratory received the samples with the temperature blank at $2^{\circ}C$. Therefore, the samples submitted to the laboratory are considered representative of the conditions at the Project Site.

8.4 Completeness

Completeness is a measure of the amount of valid data collected from a location compared to the amount that would be expected to be obtained under normal conditions. Data are considered valid when none of the criteria affecting data quality is exceeded. The Project Site completeness is calculated by dividing the number of usable data by the total number of data planned to be collected for this investigation, expressed in terms of percentage. The acceptance criteria for completeness established for the Project Site is 90 percent. Since no groundwater samples were collected, the Project Site completeness is 67 percent. Although the Project Site completeness did not meet the acceptance criteria, all soil data are considered valid and can be used to provide information to answer two out of the three questions listed in Section 1.0, Introduction.

The fact that groundwater was not encountered within the upper 21 feet at the Project Site and that the upper 21 feet of soil consists primarily of clay means it is unlikely that there is a potential for vapor from groundwater to migrate into future buildings.

8.5 Comparability

Comparability is a measure of the confidence with which one data set can be compared to another. The comparability of data can be affected by variations in sampling techniques, analytical methods, and environmental conditions (e.g., weather/seasonal variation). Data comparability for the Phase II ESA was ensured by using the same sampling techniques, analytical method, and analytical laboratory for all samples collected from the Project Site. Weather/seasonal variation is not expected to affect data comparability since collection of all samples was completed in one day.

9.0 EVALUATION OF RESULTS AND CONCLUSIONS

This section presents an evaluation of soil analytical results to determine whether contaminants identified in soil samples would pose a significant health and safety risk to future users of the Project Site.

To assess the potential impact of contaminants in soil on future users of the Project Site, the soil analytical results were screened against Environmental Screening Levels ("ESLs") for residential land use where groundwater is a current or potential drinking water source developed by the Regional Water Board (Water Board, 2008). Regional Screening Levels ("RSLs") for residential land use developed by the EPA were used for compounds for which ESLs have not been established (EPA, 2010). The ESLs and RSLs are considered protective of human health and the presence of a compound in soil at concentrations below the corresponding ESL or RSL can be considered not to pose a significant health risk to future users of the Project Site. Since the residential land use ESLs are less than the Regional Water Board's construction worker ESLs for the analytes tested, the residential screening levels will also be protective of future construction workers.

None of the soil samples contained petroleum hydrocarbons or VOCs above the respective ESLs or RSLs (Tables 1 and 2). Based on the soil analytical data collected for the Phase II ESA, the following conclusions were drawn:

• Soil samples collected from the Project Site did not contain TPH-g or VOCs at or above laboratory reporting limits or method detection limits, where applicable, except for acetone. The laboratory report indicated that acetone was present in sampling containers for VOC analyses and not in soil samples collected from the Project Site. Some of the soil samples collected from the Project Site contained TPH-d and TPH-mo above laboratory reporting limits but below ESLs for residential land use where groundwater is a current or potential drinking water source. Therefore, exposure of future construction workers to Project Site soils would also not be expected to pose a significant health risk. In addition, a potential vapor intrusion concern in future buildings on the Project Site is considered unlikely since VOCs were not identified in soil samples.

• Groundwater was not encountered underneath the Project Site at 21 feet bgs, the maximum depth explored. Therefore, potential human health risk from exposure to contaminants in groundwater would be unlikely.

10.0 DISPOSAL OF RESIDUAL MATERIALS

Borings advanced during the field investigation were grouted with neat cement to ground surface in accordance with the requirements of the ACPWA permit (see Photographs 18, 19, and 21 through 24 in Appendix C). Soil cuttings generated during boring advancement were placed in a 55-gallon drum. The decontamination rinsate water was contained in a separate 55-gallon drum. The soil and water drums were properly labeled and temporarily stored on a City-owned property near the Project Site pending receipt of analytical results (see Photograph 20 in Appendix C).

The composite soil sample from the soil cuttings did not contain total or soluble metals at concentrations that would characterize the waste as hazardous (see laboratory report in Appendix D). To determine the proper classification of the soil and water wastes, BASELINE forwarded the soil analytical results to Clearwater. On 8 September 2010, Clearwater collected the soil and water drums for disposal and/or recycling as non-hazardous wastes. A copy of the non-hazardous waste manifest is included in Appendix E.

Used personal protective equipment (nitrile gloves) and disposable sampling supplies (plastic liners) were placed in a municipal refuse dumpster. These wastes are not considered hazardous and can therefore be sent to a municipal landfill.

11.0 FIELD VARIANCES

The Phase II ESA was performed in general accordance with the SAP, with exception of the following:

- Collection and analysis of groundwater samples was not performed because groundwater did not accumulate in either boring up to 21 feet bgs, the maximum depth explored; and
- The soil sample collected from boring B-01 at the depth interval of 14.0 to 14.5 feet bgs was homogenized in a new ziplock bag instead of a steel bowl.

These SAP deviations are considered to have no affect on the conclusions of the Phase II ESA.

12.0 HEALTH AND SAFETY PROCEDURES

Field activities described in this report were performed in accordance with a Project Site-specific health and safety plan ("HSP") prepared by BASELINE. The elements of the HSP were reviewed by BASELINE with field personnel engaged in sampling activities prior to the start of work at the Project Site as part of a tail-gate safety meeting. Attendees of the tail-gate safety meeting are documented on the sign-in sheet included in the HSP. A copy of the HSP is included in Appendix F.

13.0 LIMITATION

The Phase II ESA has been conducted for the City in support of the proposed redevelopment project. BASELINE's interpretations and conclusions regarding this information and presented in this report are based on the expertise and experience of BASELINE in conducting similar assessments and current federal, state, and local regulations and standards.

BASELINE's objective is to perform our work with care, exercising the customary thoroughness and competence of earth science, environmental, and engineering consulting professionals, in accordance with the standard for professional services for a consulting firm at the time these services were provided. It is important to recognize that even the most comprehensive scope of services may fail to detect environmental conditions and potential liability at a particular site. Therefore, BASELINE cannot act as insurers and cannot "certify or underwrite" that a site is free of environmental contamination, and no expressed or implied representation or warranty is included or intended in this report except that the work was performed within the limits prescribed with the customary thoroughness and competence of our profession.

The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration at the Project Site, analysis of the data, and re-evaluation of the findings, observations, and conclusions expressed in the report.

The findings, observations, and conclusions expressed by BASELINE in this report are limited by the scope of services and should not be considered an opinion concerning the compliance of any past or current owner or operator of the Project Site with any federal, state, or local law or regulation. No warranty or guarantee, whether expressed or implied is made with respect to the data reported or findings, observations, and conclusions expressed in this report.

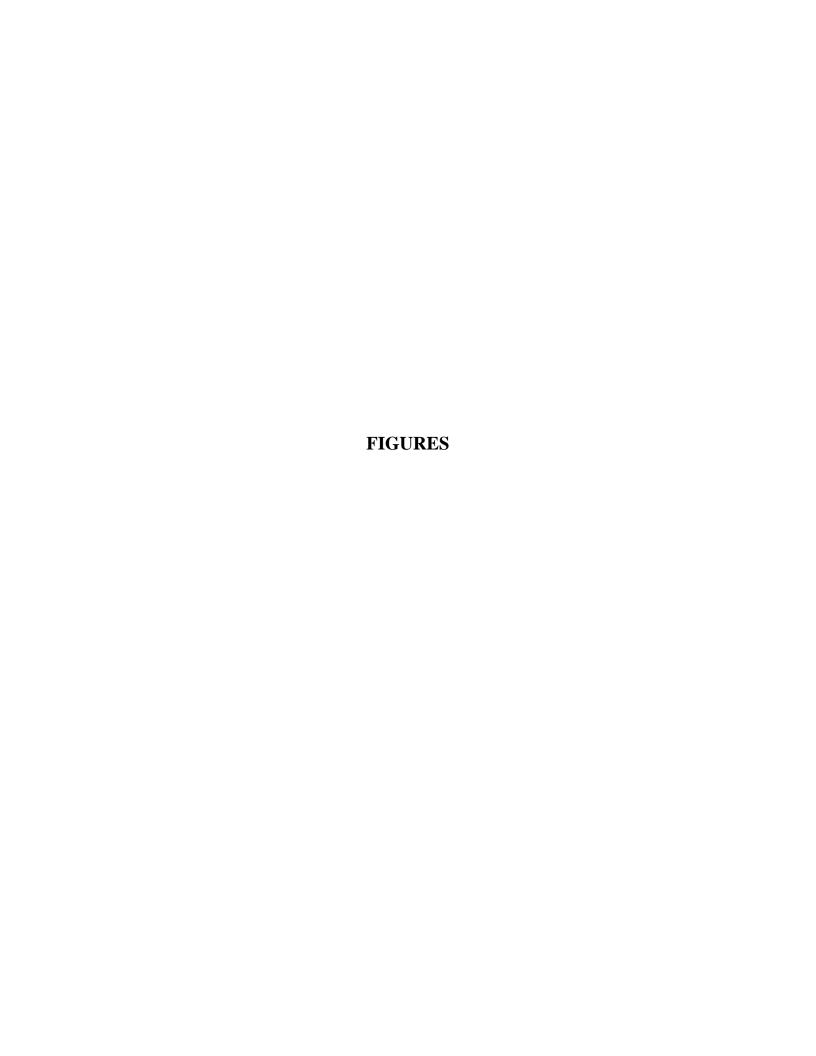
14.0 REFERENCES

BASELINE Environmental Consulting ("BASELINE"), 2010, Sampling and Analysis Plan, 5844 Bancroft Avenue Oakland, California, June.

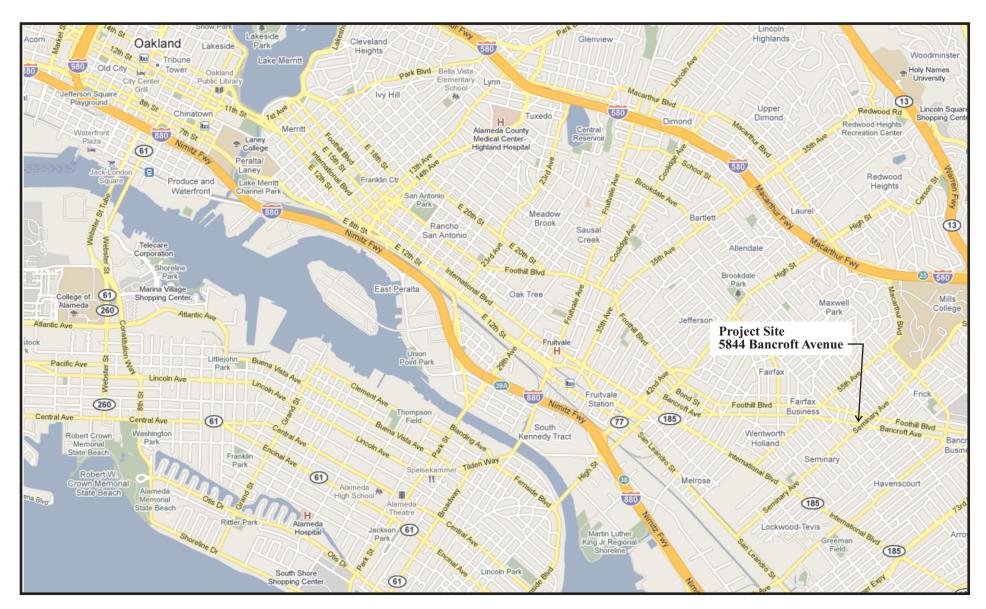
BASELINE, 2009, Phase I Environmental Site Assessment and Hazardous Building Materials Assessment, 5844 Bancroft Avenue Oakland, California, 28 December.

San Francisco Bay Regional Water Quality Control Board ("Regional Water Board"), 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May.

U.S. Environmental Protection Agency, 2010, Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, RSL Table Update, May.



VICINITY MAP Figure 1

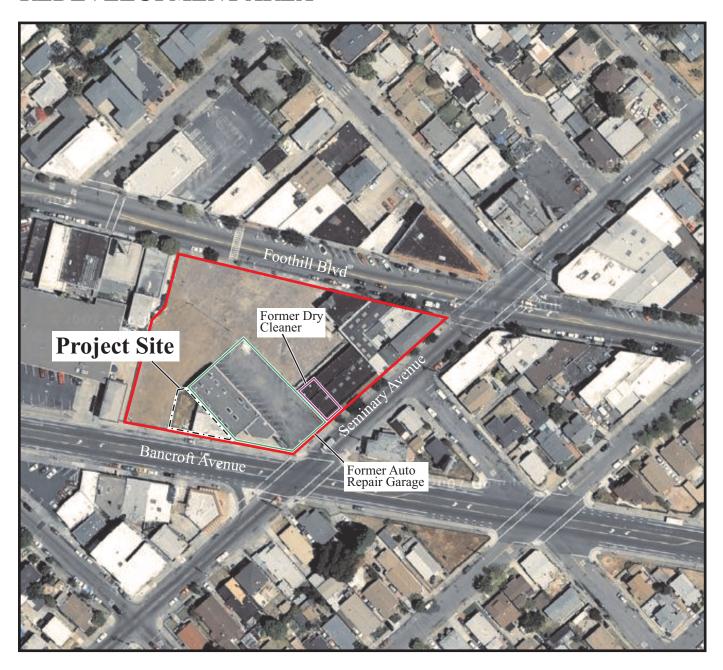


5844 Bancroft Avenue Oakland, California



FOOTHILL BOULEVARD/SEMINARY AVENUE REDEVELOPMENT AREA

Figure 2



Legend

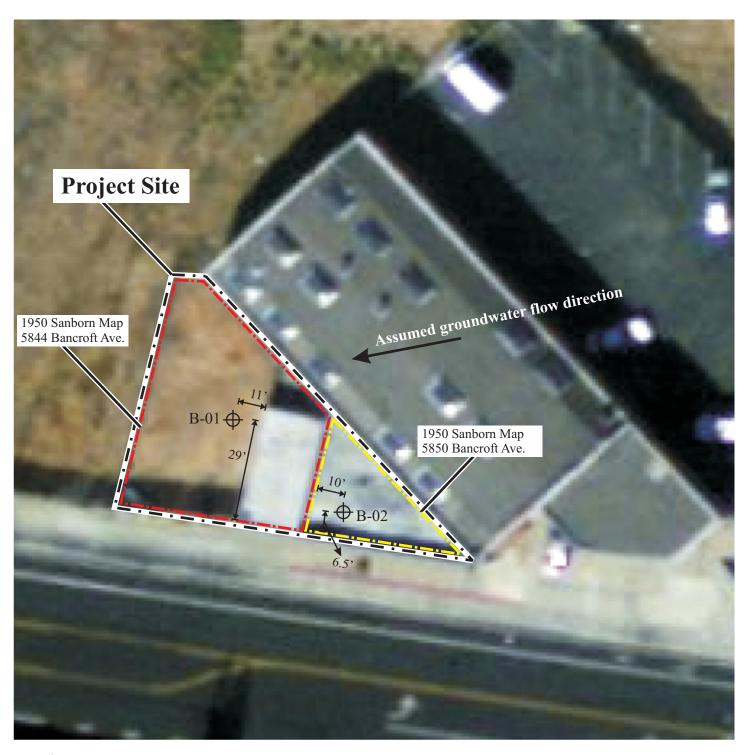
Foothill Boulevard/Seminary Avenue Redevelopment Area

---- Project Site Boundary

5844 Bancroft Avenue Oakland, California



PROJECT SITE MAP



Legend

♦ B-01 Boring Location

---- Project Site Boundary

Note: Distances were measured in the field.

5844 Bancroft Avenue Oakland, California



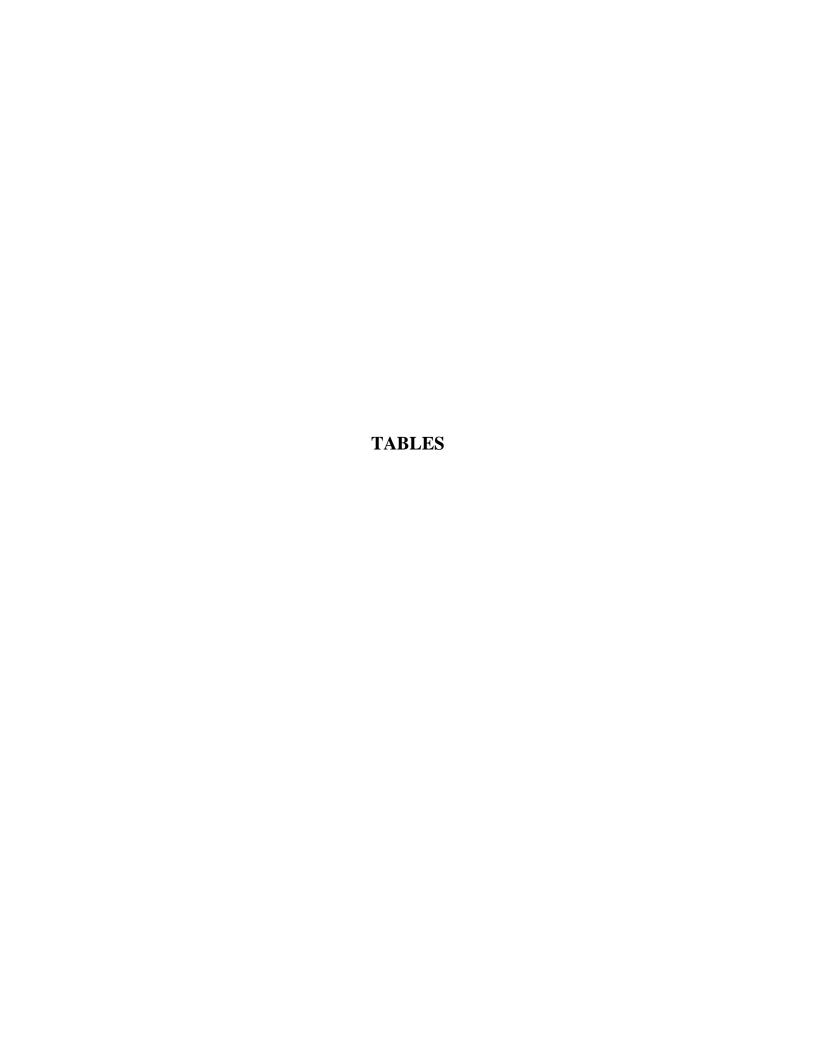


Table 1: Soil Analytical Results - Total Petroleum Hydrocarbons (mg/kg dry weight)

5844 Bancroft Avenue Oakland, California

		Sample Interval					
Sample Location	Sample Date	feet bgs	Sample ID	TPH-g	TPH-d		TPH-mo
B-01	8/18/2010	1.0-1.5	B-01;1.0-1.5	< 0.19	2.8	Y	8.1
		5.0-5.5	B-01;5.0-5.5	< 0.19	1.3	Y	< 5.4
		14.0-14.5	B-01;14.0-14.5	< 0.20	<1.1		< 5.7
		14.0-14.5	B-03;14.0-14.5	< 0.18	<1.1		< 5.7
B-02	8/18/2010	1.0-1.5	B-02;1.0-1.5	< 0.19	4.2	Y	< 5.9
		5.0-5.5	B-02;5.0-5.5	< 0.21	1.6	Y	< 5.6
		14-14.5	B-02;14-14.5	< 0.23	2.9	Y	< 6.0
		Residential ESL ¹	(mg/kg dry weight)	83	83		370

Notes:

Sampling locations are shown on Figure 3.

Laboratory reports are included in Appendix D.

Total petroleum hydrocarbons ("TPH") in the gasoline range ("TPH-g") analysis by EPA Method 8015B.

TPH in the diesel ("TPH-d") and motor oil ("TPH-mo") range analysis by EPA Method 8015B after silica gel cleanup.

Values shown in bold indicate that the compound was identified above laboratory reporting limits.

A duplicate sample was collected at boring B-01 at a depth interval of 14.0 to 14.5 feet bgs. The sample was identified as B-03;14.0-14.5.

<#.# = compound not identified at or above the laboratory reporting limit of #.#.

bgs = below ground surface.

EPA = U.S. Environmental Protection Agency.

mg/kg = milligram per kilogram.

Y = sample exhibits chromatographic pattern that does not resemble the standard.

¹ California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May (Revised), Table A, Environmental Screening Levels (ESLs), Shallow Soils (<3m bgs), Groundwater is Current or Potential Source of Drinking Water, Residential Land Use.

Table 2: Soil Analytical Results - Volatile Organic Compounds (mg/kg dry weight) 5844 Bancroft Avenue Oakland, California

Sample Location			B-01			B-02		Residential ESLs ² , unless
Sample Interval (feet bgs)	1.0-1.5	5.0-5.5	14.0-14.5	14.0-14.5	1.0-1.5	5.0-5.5	14-14.5	otherwise noted
Sample ID	B-01;1.0-1.5	B-01;5.0-5.5	B-01;14.0-14.5	B-03;14.0-14.5	B-02;1.0-1.5	B-02;5.0-5.5	B-02;14-14.5	(mg/kg dry weight)
Sample Date	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010	, , ,
Freon 12	< 0.0099	< 0.0087	< 0.0094	< 0.0095	< 0.0098	< 0.012	< 0.010	180 ³
Chloromethane	< 0.0099	< 0.0087	< 0.0094	< 0.0095	< 0.0098	< 0.012	< 0.010	6.4
Vinyl Chloride	< 0.0099	< 0.0087	< 0.0094	< 0.0095	< 0.0098	< 0.012	< 0.010	0.022
Bromomethane	< 0.0099	< 0.0087	< 0.0094	< 0.0095	< 0.0098	< 0.012	< 0.010	0.39
Chloroethane	< 0.0099	< 0.0087	< 0.0094	< 0.0095	< 0.0098	< 0.012	< 0.010	0.85
Trichlorofluoromethane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	790 ³
Acetone ⁴	0.021	0.064	0.059	< 0.019	< 0.020	0.30	0.038	0.50
Freon 113	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	43,000 ³
1,1-Dichloroethene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	1.0
Methylene Chloride	< 0.020	< 0.017	< 0.019	< 0.019	< 0.020	< 0.023	< 0.021	0.077
Carbon Disulfide	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	820 ³
MTBE	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.023
trans-1,2-Dichloroethene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.67
Vinyl Acetate	< 0.049	< 0.043	< 0.047	< 0.047	< 0.049	< 0.058	< 0.052	970 ³
1,1-Dichloroethane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.20
2-Butanone	< 0.0099	< 0.0087	< 0.0094	< 0.0095	< 0.0098	< 0.012	< 0.010	3.9
cis-1,2-Dichloroethene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.19
2,2-Dichloropropane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	NV
Chloroform	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.68
Bromochloromethane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	NV
1,1,1-Trichloroethane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	7.8
1,1-Dichloropropene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	NV
Carbon Tetrachloride	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.020
1,2-Dichloroethane ¹	< 0.0007	< 0.00061	< 0.00066	< 0.00067	< 0.00069	< 0.00082	< 0.00074	0.0045
Benzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.044
Trichloroethene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.46
1,2-Dichloropropane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.12
Bromodichloromethane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.57

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Table 2: Soil Analytical Results - Volatile Organic Compounds (mg/kg dry weight) 5844 Bancroft Avenue Oakland, California

Sample Location			B-01			B-02		Residential ESLs ² , unless
Sample Interval (feet bgs)	1.0-1.5	5.0-5.5	14.0-14.5	14.0-14.5	1.0-1.5	5.0-5.5	14-14.5	otherwise noted
Sample ID	B-01;1.0-1.5	B-01;5.0-5.5	B-01;14.0-14.5	B-03;14.0-14.5	B-02;1.0-1.5	B-02;5.0-5.5	B-02;14-14.5	(mg/kg dry weight)
Sample Date	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010	, G G ,
Dibromomethane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	25 ³
4-Methyl-2-Pentanone	< 0.0099	< 0.0087	< 0.0094	< 0.0095	< 0.0098	< 0.012	< 0.010	2.8
cis-1,3-Dichloropropene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.059
Toluene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	2.9
trans-1,3-Dichloropropene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.059
1,1,2-Trichloroethane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.070
2-Hexanone	< 0.0099	< 0.0087	< 0.0094	< 0.0095	< 0.0098	< 0.012	< 0.010	210 ³
1,3-Dichloropropane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	1,600 ³
Tetrachloroethene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.37
Dibromochloromethane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	7.6
1,2-Dibromoethane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.00033
Chlorobenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	1.5
1,1,1,2-Tetrachloroethane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.024
Ethylbenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	2.3
m,p-Xylenes	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	2.3
o-Xylene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	2.3
Styrene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	1.5
Bromoform	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	2.2
Isopropylbenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	2,100 ³
1,1,2,2-Tetrachloroethane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.018
1,2,3-Trichloropropane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.0050^{-3}
Propylbenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	3,400 ³
Bromobenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	300 ³
1,3,5-Trimethylbenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	780 ³
2-Chlorotoluene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	1,600 ³
4-Chlorotoluene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	5,500 ³
tert-Butylbenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	NV
1,2,4-Trimethylbenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	62 ³

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 Table 2: Soil Analytical Results - Volatile Organic Compounds (mg/kg dry weight)

5844 Bancroft Avenue Oakland, California

Sample Location			B-01			B-02		Residential ESLs ² , unless
Sample Interval (feet bgs)	1.0-1.5	5.0-5.5	14.0-14.5	14.0-14.5	1.0-1.5	5.0-5.5	14-14.5	otherwise noted
Sample ID	B-01;1.0-1.5	B-01;5.0-5.5	B-01;14.0-14.5	B-03;14.0-14.5	B-02;1.0-1.5	B-02;5.0-5.5	B-02;14-14.5	(mg/kg dry weight)
Sample Date	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010	(mg/ng dry weight)
sec-Butylbenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	NV
para-Isopropyl Toluene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	NV
1,3-Dichlorobenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	7.4
1,4-Dichlorobenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.59
n-Butylbenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	NV
1,2-Dichlorobenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	1.1
1,2-Dibromo-3-Chloropropane	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	0.0045
1,2,4-Trichlorobenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	1.5
Hexachlorobutadiene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	2.2
Naphthalene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	1.3
1,2,3-Trichlorobenzene	< 0.0049	< 0.0043	< 0.0047	< 0.0047	< 0.0049	< 0.0058	< 0.0052	49 ³

Notes:

Sampling locations are shown on Figure 3.

Laboratory reports are included in Appendix D.

Volatile organic compound analysis by EPA Method 8260B.

Values shown in bold indicate that the compound was identified above laboratory reporting limits.

A duplicate sample was collected at boring B-01 at a depth interval of 14.0 to 14.5 feet bgs. The sample was identified as B-03;14.0-14.5.

<#.# = compound not identified at or above the laboratory reporting limit or the method detection limit of #.#, where applicable.

bgs = below ground surface.

EPA = U.S. Environmental Protection Agency.

mg/kg = milligram per kilogram.

¹ Values based on method detection limits.

² California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May (Revised), Table A, Environmental Screening Levels (ESLs), Shallow Soils (<3m bgs), Groundwater is Current or Potential Source of Drinking Water, Residential Land Use.

³ EPA, 2010, Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, RSL Table Update, May.

⁴ The laboratory report indicated that acetone was indiscriminantly present in Core N' One capsules and not in soil samples collected from the Project Site.

APPENDIX A LOGS FOR BORINGS B-01 AND B-02

5900 Hollis Street, D Emeryville, CA 94608 (510) 420-8686 (510) 420-1707 fax

09-09-2010 P:\Baselogs\Y8359-07\B-01.bor

Boring ID: B-01

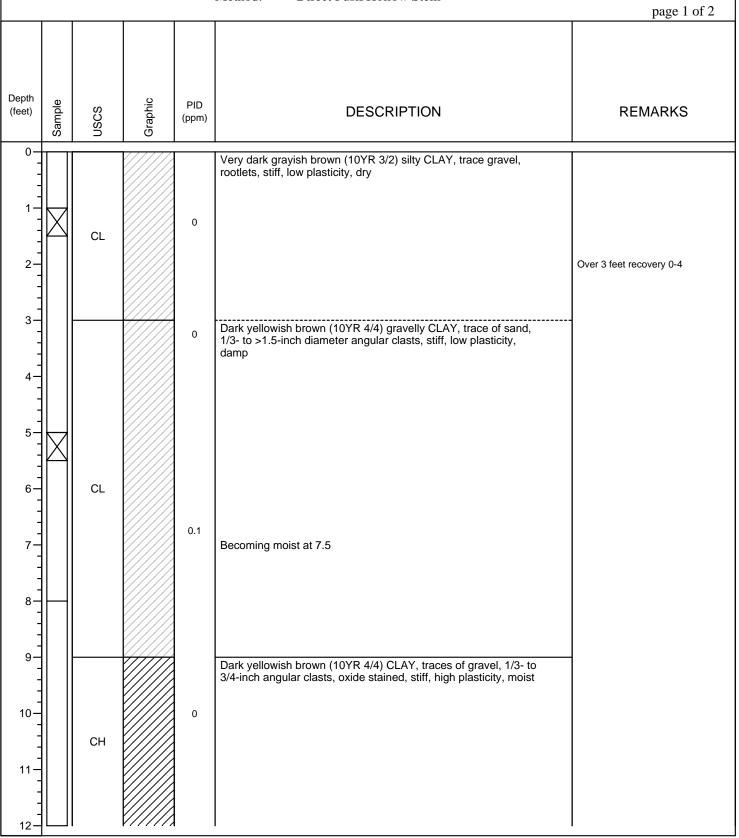
Date: 8/18/10 Location: Project No.: Y8359-07 Logger:

Driller: RSI Drilling Bore size: 3-inch

5844 Foothill Blvd., Oakland

WK Scott, P.G. #6104

Method: Direct Push/Hollow Stem



5900 Hollis Street, D Emeryville, CA 94608 (510) 420-8686 (510) 420-1707 fax

09-09-2010 P:\Baselogs\Y8359-07\B-01.bor

Boring ID: B-01

Date: 8/18/10 Project No.: Y8359-07

Driller: RSI Drilling Bore size: 3-inch

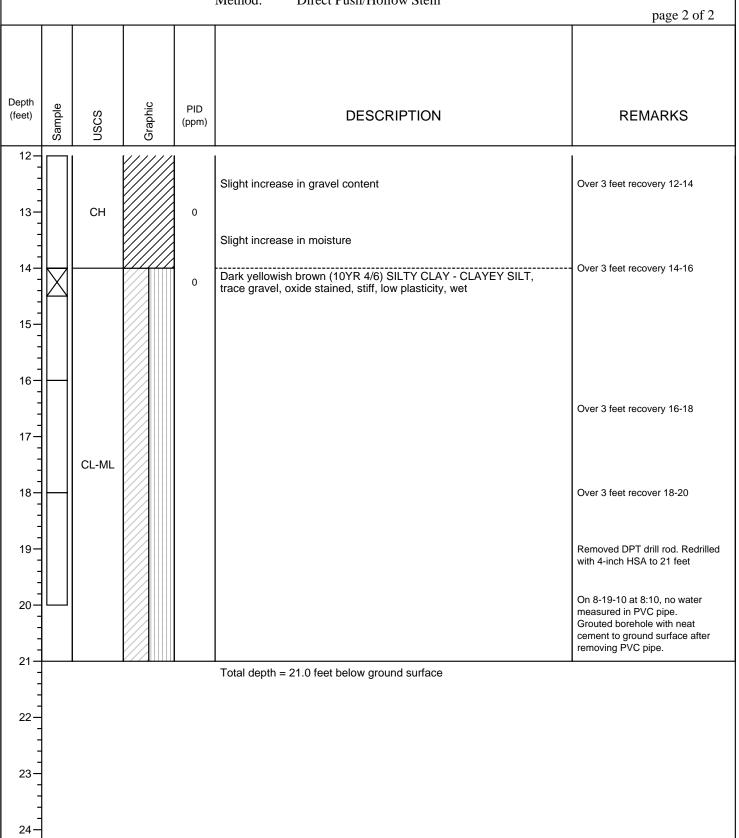
Location:

Logger:

5844 Foothill Blvd., Oakland

WK Scott, P.G. #6104

Method: Direct Push/Hollow Stem



5900 Hollis Street, D Emeryville, CA 94608 (510) 420-8686 (510) 420-1707 fax

09-09-2010 P:\Baselogs\Y8359-07\B-02.bor

Boring ID: B-02

Date: 8/18/10 Project No.: Y8359-07

Driller: RSI Drilling

Method: Direct Push

Location: 5844 Foothill Blvd., Oakland

Logger: WK Scott, P.G. #6104

Bore size: 3-inch

					Method: Direct Push	page 1 of 2
Depth	ile		ic	PID	DECODIDEION	
(feet)	Sample	nscs	Graphic	(ppm)	DESCRIPTION	REMARKS
0 =			///////		Concrete core 4 inches	Concrete cored to 4 inches
1-	X			0	Very dark gray (10YR 3/1) silty CLAY, trace gravel, 1/3- to 1/2-inch angular clasts, soft to firm, low plasticity, moist,	Full recovery from 0-4
2		CL			Overdetional above in color to brown (40VD 5/2)	
4-					Gradational change in color to brown (10YR 5/3)	
5	X				Brown (10YR 4/3) clayey GRAVEL-gravelly CLAY, trace of sand, 1/3 to >1.5-inch subangular to angular clasts of gravel, clasts composed of siltstone, sandstone, chert, moist	Over 3 feet recovery from 4-6
6-1 7-1		GC-CL		0		Over 3 feet recovery from 6-8
8 9 1				0		Over 3 feet recovery from 8-10
10						

Boring ID: B-02

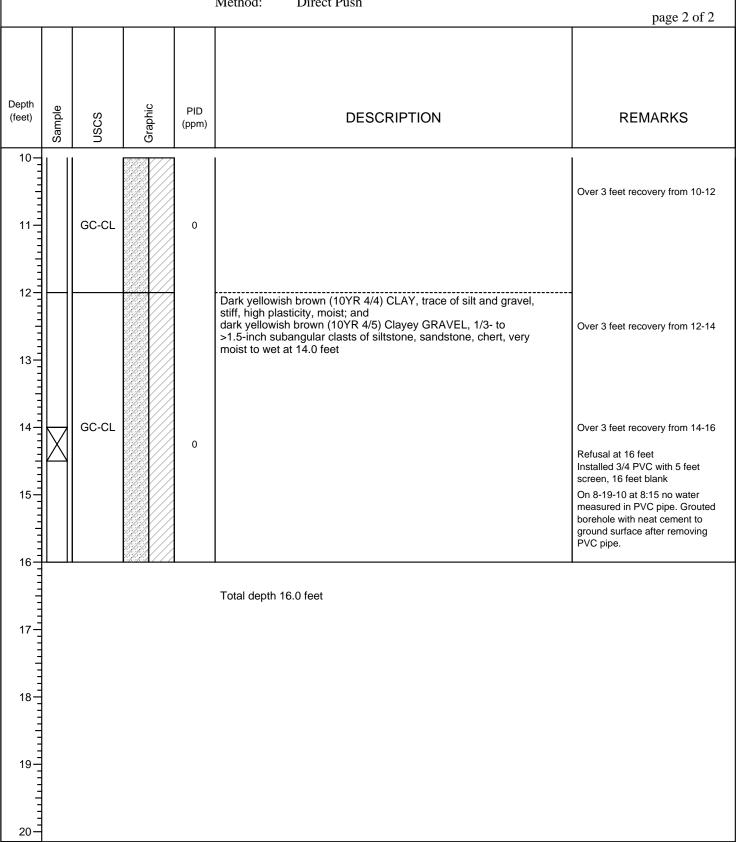
5900 Hollis Street, D Emeryville, CA 94608 (510) 420-8686 (510) 420-1707 fax

09-09-2010 P:\Baselogs\Y8359-07\B-02.bor

Date: 8/18/10 Project No.: Y8359-07 Driller: RSI Drilling Location: 5844 Foothill Blvd., Oakland Logger: WK Scott, P.G. #6104

Bore size: 3-inch

Method: Direct Push



APPENDIX B
ALAMEDA COUNTY PUBLIC WORKS AGENCY BORING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 08/17/2010 By jamesy

Permit Numbers: W2010-0625 Permits Valid from 08/26/2010 to 08/26/2010

Application Id: 1281637541038 City of Project Site: Oakland

Site Location: 5844 Bancroft Avenue (between Seminary and Avenal avenues)

Project Start Date: 08/26/2010 Completion Date: 08/26/2010

Assigned Inspector: Contact John Shouldice at (510) 670-5424 or johns@acpwa.org

Applicant: BASELINE Environmental Consulting - Reginald Phone: 510-420-8686

Ramirez

5900 Hollis Street Suite D, Emeryville, CA 94608

Property Owner: City of Oakland c/o Mark Arniola Phone: --

250 Frank H Ogawa Plaza, Oakland, CA 94612 ** same as Property Owner ** Client:

> Total Due: \$265.00

Receipt Number: WR2010-0282 **Total Amount Paid:** 265.00

Payer Name: Reginald Ramirez Paid By: MC PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 2 Boreholes

Driller: RSI Driling - Lic #: 802334 - Method: hstem Work Total: \$265.00

Specifications

Permit	Issued Dt	Expire Dt	#	Hole Diam	Max Depth
Number			Boreholes		
W2010-	08/17/2010	11/24/2010	2	8.00 in.	36.00 ft
0625					

Specific Work Permit Conditions

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 4. Applicant shall contact John Shouldice for an inspection time at 510-670-5424 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and

Alameda County Public Works Agency - Water Resources Well Permit

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

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

APPENDIX C FIELD LOGS, PHOTOGRAPH LOGS, AND PHOTOGRAPHS

Project nam	e: 5844 Foothill Plus Project no.: Y8359-07
Logger:	W/s Date: 8-18-10
Weather con	nditions: An overlagt Then son
Site personr	nel: WES RSI Reviewed by: Reginal forming
Time	Field Activities Soil + Gw Investigation
6:30	on site checked USA.
	Romoved one panel of chain link form
	for R.g. accessi
7:00	isobutation
7:10	RSI on site, conduited Pail Gote. PRE used Hard hat, safter veril nitule gloves, safty glusses, hard road shoe
7:45	Set up on B-01
8:15	called John Acpus As Requested, informed him we are on site
8:20	Redgy on site, Looks of creek neories site inicated
8:45	Mark on sit, Gave us Key to access building
9:30	Redrilled 18-01 with 41" HSA TO Remove any Smear of clay on Side will of boing, insulted 201 PUL casing w/ 5' screen
10:50	Started boring B-O2
12:20	completed borns Refusel at 16' set casing
13:00	Took water level readily both Borigs No- water
13:20	left site after replacing chain link fence and booking. gate + doors to building.

Project name	o:	Project no.:	Y8359-07
Logger:	wks	Date:	8-18-10
Weather con	ditions:		
Site personn	e <u>l:</u>		
Time	Field Activities Soil Borings		
12345678911 1134517 Note	Boring B-01 Set up Soil Semple 4-8' 11 11 8-12 12-14 4 Close-up of Soil at 11 Soil Sample 16-18 4 19 Boring B-02 - Set up Cole B-02 Boring B-02 0-4 Boring B-02 14-6 3 Boring B-02 12-14 Boring B-02 14-16 Close up of Soil at 15/bg Picture Number 10 Was	501 Som 501 Som 6-8 So Soil Som Soil Som Soil Som Soil Som Soil Som Soil Som Soil Som Soil Som	yb il sample il il il il il il il il il il

Project: 5844 Banca	roft Aveine.	Job No: 18359-07
Logger: RR		Date: 8/19/2010
Weather Conditions: 0	vercast	
Time	ELINE and RSI Prilling Field Ac	tivities
800	Arrival Time	And the second s
	- Measured groundwa	for at B-01 using face probe No
	a dual-phase inter	force probe. No
	groundwater detected	
	- Groundwater was	also not detected
	in boring B-02	
8:26	- Called John Shoul	dia of ACPWA
	regarding growting	of borings.
	He authorized prove	eding with growting
	of borongs using	a reasonable
	1, , , , , , , , , , , , , , , , , , ,	it to ground surface.
8:36	- Begin growing at	*
8:45	- Begin growting at	
	V.	
,		
9:14.	Departure Time	

reviewed by: William RSCH Mathe Khutte

page / of /

Project name	: 5844 Bancroft Avenue Project no. : Y8359-07
Logger:	RR Date: 8/19/2010
Weather cond	
 Site personne	
Time -	Field Activities
Photo #	Arrival Time-
18	Priller removing temporary PUC casings from
	boring B-01.
19	Priller grouting boring B-01 with neat coment.
20	soil and rinsate water dwws temporarily stored
	oh a City-owned property facing seminary Ave
	between Foothill Blud and Baneroft Ave.
21	priller removed temporary PVC casings from
·····	boring B-02 prior to questing
22	priller grouting boring B-02 with neat cement.
23	Grouted boring 8-01 to ground surface.
24	Grouted boring B-02 to ground surface
	·
	Departure Time

BASELINE • 5900 Hollis Street, Suite D • Emeryville, CA 94608 • (510) 420-8686 • (510) 420-1707 fax



Photograph 1: Boring B-01 Setup.



Photograph 2: Soil Sample, Boring B-01, 4 feet to 8 feet below ground surface.

5844 Bancroft Avenue Oakland, California

BaselinE



Photograph 3: Soil Sample, Boring B-01, 8 feet to 12 feet below ground surface.



Photograph 4: Soil Sample, Boring B-01, 12 feet to 14 feet and 14 feet to 16 feet below ground surface.

5844 Bancroft Avenue Oakland, California



Photograph 5: Close-up of Soil from Boring B-01 at 11 feet below ground surface.



Photograph 6: Soil Sample, Boring B-01, 16 feet to 18 feet and 18 feet to 20 feet below ground surface.

5844 Bancroft Avenue Oakland, California



Photograph 7: Boring B-02 - Setup.



Photograph 8: Core B-02.

5844 Bancroft Avenue Oakland, California

BASELINE



Photograph 9: Soil Sample, Boring B-02, 0 feet to 4 feet below ground surface.



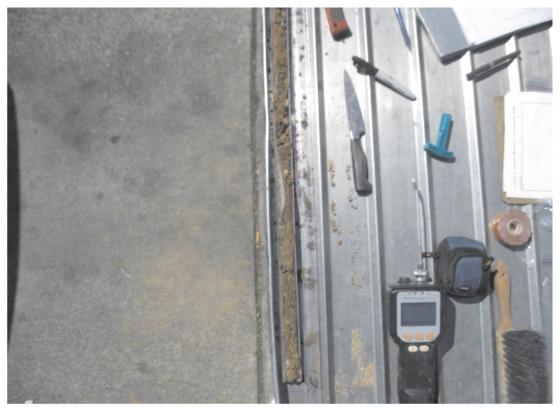
Photograph 11: Soil Sample, Boring B-02, 4 feet to 6 feet and 6 feet to 8 feet below ground surface.

5844 Bancroft Avenue Oakland, California

BaselinE



Photograph 12: Soil Sample, Boring B-02, 8 feet to 10 feet below ground surface.



Photograph 13: Soil Sample, Boring B-02, 10 feet to 12 feet below ground surface.

5844 Bancroft Avenue Oakland, California



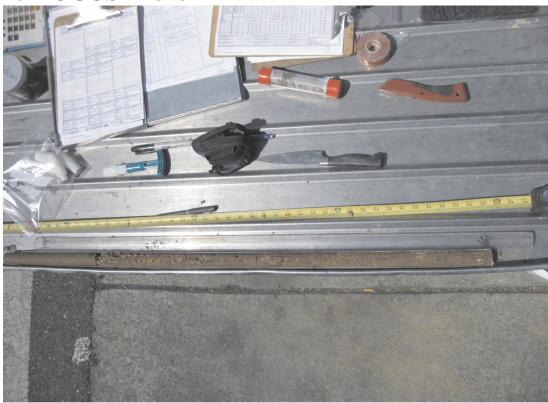
Photograph 14: Soil Sample, Boring B-02, 12 feet to 14 feet below ground surface.



Photograph 15: Soil Sample, Boring B-02, 14 feet to 16 feet below ground surface.

5844 Bancroft Avenue Oakland, California

BASELINE



Photograph 16: Soil Sample, Boring B-02, 14 feet to 16 feet below ground surface.



Photograph 17: Close up of Soil from Boring B-02 at 15 feet below ground surface.

5844 Bancroft Avenue Oakland, California



Photograph 18: Driller Removing Temporary PVC Casings from Boring B-01.



Photograph 19: Driller Grouting Boring B-01 with Neat Cement.

5844 Bancroft Avenue Oakland, California

BASELINE



Photograph 20: Soil and Rinsate Water Drums Temporarily Stored on a City-Owned Property on Seminary Avenue.



Photograph 21: Driller Removed Temporary PVC Casings from Boring B-02 prior to Grouting.

5844 Bancroft Avenue Oakland, California



Photograph 22: Driller Grouting Boring B-02 with Neat Cement.



Photograph 23: Grouted Boring B-01 to Ground Surface.

5844 Bancroft Avenue Oakland, California



Photograph 24: Grouted Boring B-02 to Ground Surface.

APPENDIX D LABORATORY REPORTS 221947 222068

QUALITY CONTROL CHECKLIST FOR REVIEW OF LABORATORY REPORT

Job No. Y8359-07 Project: 5844 Bancroft Avenue

Laboratory:Curtis & Tompkins, Ltd.Laboratory Report No.:221947Report Date:26 August 2010BASELINE Reviewer:RR

		Yes	No	NA
(Des	NERAL QUESTIONS scribe "no" responses below in "comments" section. Contact the laboratory, as requ lanation or action on "no" responses; document discussion in comments section.)	ired, fo	r furthe	er
1a.	Does the report include a case narrative? (A case narrative MUST be prepared by the lab for all analytical work requested by BASELINE)	X		
1b.	Is the number of pages for the lab report as indicated on the case narrative/lab transmittal consistent with the number of pages that are included in report?	X		
1c.	Does the case narrative indicate which samples were analyzed by a subcontractor and the subcontractor's name?			X
1d.	Does the case narrative summarize subsequent requests not shown on the chain-of-custody (e.g., additional analyses requested, release of "hold" samples)?			X
1e.	Does the case narrative explain why requested analyses could not be performed by the laboratory (e.g., insufficient sample)?			X
1f.	Does the case narrative explain all problems with the QA/QC data as identified in the checklist (as applicable)?	X		
2a.	Is the laboratory report format consistent and legible throughout the report?	X		
2b.	Are the sample and reported dates shown in the laboratory report correct?	X		
3a.	Does the lab report include a copy of the original chain-of-custody form?	X		
3b.	Were all samples appropriately analyzed as requested on the chain-of-custody form?	X		
4.	Was the lab report signed and dated as being reviewed by the laboratory director, QA manager, or other appropriate personnel? (Some lab reports have signature spaces for each page). (This requirement also applies to any analyses subcontracted out by the laboratory)	X		
5a.	Are preparation methods, cleanup methods (if applicable), and laboratory methods indicated for all analyses?	X		
5b.	If additional analytes were requested as part of the reporting of the data for an analytical method, were these included in the lab report?			X
6.	Are the units in the lab report provided for each analysis consistent throughout the report?	X		

		Yes	No	NA
7.	Are the detection limits (DL) appropriate based on the intended use of the data (e.g., DL below applicable MCLs for water quality issues)? See comments on page 4 of this checklist.		X	
8a.	Are detection limits appropriate based on the analysis performed (i.e., not elevated due to dilution effects)?	X		
8b.	If no, is an explanation provided by the laboratory?			X
9a.	Were the samples analyzed within the appropriate holding time (generally 2 weeks for volatiles, and up to 6 months for total metals)?	X		
9b.	If no, was it flagged in the report?			X
10.	If samples were composited prior to analysis, does the lab report indicate which samples were composited for each analysis?			X
11a.	Do the chromatograms confirm quantitative laboratory results (petroleum hydrocarbons)?	X		
11b.	Is a standard chromatogram(s) included in the laboratory report?	X		
11c.	Do the chromatograms confirm laboratory notes, if present (e.g., sample exhibits lighter hydrocarbon than standard)?	X		
12.	Are the results consistent with previous analytical results from the site? (If no, contact the lab and request review/reanalysis of data, as appropriate.)			X
13a.	REVISED LAB REPORTS ONLY. Is the revised lab report or revised pages to a lab report signed and dated as being reviewed by the laboratory director, QA manager, or other appropriate personnel?			X
13b.	REVISED LAB REPORTS ONLY. Does the case narrative indicate the date of revision and provide an explanation for the revision?			X
13c.	REVISED LAB REPORTS ONLY. Does the revised lab report adequately address the problem(s) that triggered the need for a revision?			X
13d.	REVISED LAB REPORTS ONLY. Are the data included in the revised report the same as the data reported in the original report, except where the report was revised to correct incorrectly reported data?			X
	QC Questions d/Laboratory Quality Control - Groundwater Analyses			
14.	Are field blanks reported as "ND" (groundwater samples)? A field blank is a sample of DI water that is prepared in the field using the same collection and handling procedures as the other samples collected, and used to demonstrate that the sampling procedure has not contaminated the sample.			X
14a.	Are rinsate blanks reported as "ND" (soil samples)? A rinsate blank is a sample of DI water that is prepared in the field by collecting DI rinse water after it has been poured over decontaminated sampling equipment. The rinsate blank is collected to demonstrate that the decontamination procedure has removed all the contaminants from the sampling equipment and that the sampling equipment has not contaminated	X		

		Yes	No	NA
	the sample.			
15.	Are trip blanks reported as "ND" (groundwater samples/volatile analyses)? A trip blank is a sample of contaminant free matrix placed in an appropriate container by the lab and transported with the field samples collected. Provides information regarding positive interference introduced during sample transport, storage, preservation, and analysis. The sample is NOT opened in the field.			X
16.	Are duplicate sample results consistent with the original sample? Field duplicates consist of two independent samples collected at the same sampling location during a single sampling event. Used to evaluate precision of the analytical data and sampling technique. (Differences between the duplicate and sample results may also be attributed to environmental variability.)	X		
(Sar few fran	ch Quality Control mples are batched together by matrix [soil, water] and analyses requested. A batch generater samples of the same matrix type, and is prepared using the same reagents, standards, proper as the samples. QC samples are run with each batch to assess performance of the entire tess.)	ocedure	s, and tir	
17.	Do the sample batch numbers and corresponding laboratory QA/QC batch numbers match?	X		
18a	Are method blanks (MB) for the analytical method(s) below the laboratory reporting limits? <i>Used to assess lab contamination and prevent false positive results</i> .	X		
18b	. If no, is an explanation provided in the case narrative to validate the data?			X
18c	Are analytes that may be considered laboratory contaminants reported below the laboratory reporting limit? <i>Common lab contaminants include acetone, methylene chloride, 2-butanone, diethylhexyl phthalate, and di-n-octyl phthalate.</i>		X	
18d	. If no, was the laboratory contacted to determine whether the reported analyte could be a potential laboratory contaminant and was an explanation included in the case narrative?	X		
19.	Are laboratory control samples (LCS) and LCS duplicate (LCSD) [a.k.a., Blank Spike (BS) and BS duplicates (BSD)] within laboratory reporting limits? Limits should be provided on the report. LCS is a reagent blank spike with a representative selection of target analyte(s) and prepared in the same manner as the samples analyzed. The LCS should be spiked with the same analytes as the matrix spike (below). The LCS is free from interferences from the sample matrix and demonstrates the ability of the lab instruments to recover the target analytes. Accuracy (recovery information) is generally reported as % spike recovery; precision (reproducibility of results) between the LCS and LCSD is generally reported as the relative percent difference (RPD). LCS/LCSD can be run in addition to or in lieu of matrix QC data.	X		
20a.	Are the Matrix QC data (i.e., MS/MSD) within laboratory limits? Limits should be provided on the lab report. The lab selects a sample from the batch and analyzes a spike and a spike duplicate of that sample. Matrix QC data is used to obtain precision and accuracy information and is reported in the same manner as LCS/LCSD. If the MS/MSD fails, the results may still be considered valid if the MB and either the LCS/LCSD or BS/BSD is within the lab's limits (failure is probably due to matrix interference).		X	

Quality Control Checklist - continued

	Yes	No	NA
20b. If no, is the MB and either LCS/LCSD or BS/BSD within lab limits to validate the data?	X		
Sample Quality Control			
21a. Are the surrogate spikes reported within the lab's acceptable recovery limits? A surrogate is a non-target analyte, which is similar in chemical structure to the analyte(s) being analyzed for, and which is not commonly found in environmental samples. A known concentration of the surrogate is spiked into the sample or QA "sample" prior to extraction or sample preparation. Results are usually reported as % recovery of the spike. Failure to meet lab's limits for primary and secondary surrogates results in rebatching and reanalysis of the sample; failure of only the primary or the secondary surrogate may be acceptable under certain circumstances. Failure generally is due to coelution with the sample matrix.	X		
21b. If no, is an explanation given in the case narrative to validate the data?			X

Comments:

The laboratory reporting limits for 1,2-dibromo-3-chloropropane and 1,2-dibromoethane were above the environmental screening levels for residential land use where groundwater is a current or potential source of drinking water. These compounds are not associated with operation of dry cleaners or gasoline service stations, which were land uses identified in the vicinity of the Project Site. In addition, the laboratory reporting limit for 1,2,3-trichloropropane was above the regional screening level for residential land use for some samples. This compound is used as an industrial solvent, paint and varnish remover, and cleaning and degreasing agent. The presence of this compound is unlikely unless other volatile organic compounds are also identified in the sample. Therefore, no further action is required.

Acetone was reported above laboratory reporting limits in five soil samples. The laboratory report indicated that the contaminant was from Core N' One Capsules and not from the Project Site. Therefore, no further action is required.

Low recovery for zinc was observed in the MSD. Analysis for Title 22 metals was performed to provide inorganic compound information to waste haulers for proper disposal of investigation-derived wastes.





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 221947 ANALYTICAL REPORT

Baseline Environmental Project : Y8359-07

5900 Hollis Street Location : 5844 Bancroft Ave

Emeryville, CA 94608 Level : II

<u>Sample ID</u>	<u>Lab ID</u>
B-01;1.0-1.5	221947-001
B-01;5.0-5.5	221947-002
B-01;14.0-14.5	221947-003
B-02;1.0-1.5	221947-004
B-02;5.0-5.5	221947-005
B-02;14-14.5	221947-006
B-03;14.0-14.5	221947-007
B-03	221947-008
DRUM	221947-009

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

Signature: Device 7. Tetralt

Project Manager

Date: <u>08/26/2010</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: 221947

Client: Baseline Environmental

Project: Y8359-07

Location: 5844 Bancroft Ave

Request Date: 08/19/10 Samples Received: 08/19/10

This data package contains sample and QC results for eight soil samples and one water sample, requested for the above referenced project on 08/19/10. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:

Matrix spikes QC557084,QC557085 (batch 166151) were not reported because the parent sample was reanalyzed in another batch. Response exceeding the instrument's linear range was observed for acetone in B-02;5.0-5.5 (lab # 221947-005); affected data was qualified with "b". Acetone was detected above the RL in samples B-01;1.0-1.5 (lab # 221947-001), B-01;5.0-5.5 (lab # 221947-002), B-01;14.0-14.5 (lab # 221947-003), B-02;5.0-5.5 (lab # 221947-005), and B-02;14-14.5 (lab # 221947-006). After extensive investigation, it is believed that the acetone is not a product of the site and is a contaminant appearing indiscriminately from the encore sampling devices. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

Low recovery was observed for zinc in the MSD for batch 166215; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

Page 1 of 1

Laboratory Curtis & Tompkins

Turn-Around-Time Standard TAT

BASELINE Contact Person Redgy Ramirez

BASELINE Environemental Consulting

5900 Hollis Street, Suite D

Tel: (510) 420-8686 Fax: (510) 420-1707 Emeryville, CA 94608

CHAIN OF CUSTODY RECORD

Dichloroethane in soil and Remarks/ Composite TPH-mo in groundwater based on the method Please estimate 1,2 detection limit. redgy@baseline-env.com Note: Report soil results in dry weight. jim@baseline-env.com Arrival at Laboratory: Email contact: Remarks: Analyses (EPA 6010B/747A) itle 22 Metals Date/Time Date/Time EPA 8260B) S FPH-d, mo w/ silica gel clean up EPA 8015M) EPA 8015M) dass lar Liter Amber Glass AOV Jm 04 Container and Preservative Received by: (Signature) Received by: (Signature) Received by: (Signature Core-n-One Capsule Sutyrate Tube Comments: stainless Steel Tube Total No. Media 8 Willest hother YES 02:11 12:30 11:20 5844 Bancroft Ave 25,67 <u>ક</u> 2-18-2 2-(8-10 Received at laboratory with intact: 4518-1U 8-18-10 5-18-10 8-18-10 8-18-10 X8359-07 8-15-10 01-61-8 Refinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature) Š. Samplers: (Signature) B-01;14.0-14.5 B-03; 14.0 -14,5 B-02; 14-14-5 B-02;1.0-1.5 B-01;1.0-1.5 Project Number B-02;5.0-5.5 Project Name: Sample ID Station DRUM # B-03

COOLER RECEIPT CHECKLIST



Login# 221947	Date Received Project	/19/10]	Number of cooler	s
Client BASEUNE	Project	ct Y8354 -	\sim	
Date Opened 8/10/10 By (pr Date Logged in By (pr	int) M. VIVO 24	(sign)	Jan 1	
1. Did cooler come with a shippin Shipping info	ng slip (airbill, etc)		YES	NO
2A. Were custody seals present? How many	Name		on samplesDate	NO
2B. Were custody seals intact upon 3. Were custody papers dry and in 4. Were custody papers filled out 5. Is the project identifiable from 6. Indicate the packing in cooler:	ntact when received properly (ink, sign a custody papers? (I	ed, etc)?f so fill out top	YES YES Of form) YES	NO NO
Bubble Wrap	Foam blocks Cardboard	XBags □ Styrofoam	☐ None ☐ Paper to	wels
Type of ice used: Wes	☐ Blue/Gel	□None	Temp($^{\circ}$ C) 2	9
☐ Samples Received on i			ank	
☐ Samples received on ic		•		า
•	•	• •		\bigcirc
8. Were Method 5035 sampling of If YES, what time were the				YES NO
9. Did all bottles arrive unbroken				YES NO
10. Are samples in the appropria				YES NO
11. Are sample labels present, in				AES, NO
12. Do the sample labels agree wi				YES NO
13. Was sufficient amount of sam		quested?	- C	YES' NO
14. Are the samples appropriately 15. Are bubbles > 6mm absent in	·		(YES)	NO N/A
16. Was the client contacted conc	erning this sample	delivery?		YES NO
If YES, Who was called?	cining and sample	By	Date:	11.5 (1.0)
COMMENTS				

SOP Volume:

Client Services

Section:

1.1.2

Page:

1 of 1

Rev. 6 Number 1 of 3
Effective: 23 July 2008
Z:\qc\forms\checklists\Cooler Receipt Checklist_rv6.doc



	Total Volatile Hydrocarbons			
Lab #:	221947	Location:	5844 Bancroft Ave	
Client:	Baseline Environmental	Prep:	EPA 5030B	
Project#:	Y8359-07	Analysis:	EPA 8015B	
Field ID:	B-03	Batch#:	166156	
Matrix:	Water	Sampled:	08/18/10	
Units:	ug/L	Received:	08/19/10	
Diln Fac:	1.000	Analyzed:	08/20/10	

Type: SAMPLE Lab ID: 221947-008

Analyte	Result	RL	
Gasoline C7-C12	ND	50	

Surrogate	%REC	Limits	
Bromofluorobenzene (FID)	103	70-140	

Type: BLANK Lab ID: QC557068

Analyte	Result	RL	
Gasoline C7-C12	ND	50	

Surrogate	%REC	Limits	
Bromofluorobenzene (FID)	94	70-140	

ND= Not Detected RL= Reporting Limit

Page 1 of 1



Total Volatile Hydrocarbons					
Lab #:	221947	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	EPA 5030B		
Project#:	Y8359-07	Analysis:	EPA 8015B		
Type:	LCS	Diln Fac:	1.000		
Lab ID:	QC557069	Batch#:	166156		
Matrix:	Water	Analyzed:	08/20/10		
Units:	ug/L				

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	909.8	91	73-127

Surrogate %REC Limi
omofluorobenzene (FID) 106 70-1

Page 1 of 1 17.0



	Total Volatile Hydrocarbons					
Lab #:	221947	Location:	5844 Bancroft Ave			
Client:	Baseline Environmental	Prep:	EPA 5030B			
Project#:	Y8359-07	Analysis:	EPA 8015B			
Field ID:	ZZZZZZZZZ	Batch#:	166156			
MSS Lab ID:	221953-003	Sampled:	08/18/10			
Matrix:	Water	Received:	08/19/10			
Units:	ug/L	Analyzed:	08/20/10			
Diln Fac:	1.000					

Type: MS

Lab ID: QC557070

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	23.08	2,000	1,787	88	68-120

Surrogate	%REC	Limits	
Bromofluorobenzene (FID)	110	70-140	

Type: MSD Lab ID: QC557071

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,720	85	68-120	4	20



Gasoline by GC/FID (5035 Prep) Lab #: 221947 5844 Bancroft Ave Location: EPA 5035 Client: Prep: Baseline Environmental Project#: Y8359-07 Analysis: EPA 8015B Diln Fac: 1.000 Matrix: Soil 08/18/10 Units: mg/Kg Sampled: Basis: Received: 08/19/10 dry

Field ID: B-01;1.0-1.5 Moisture: 12% Type: SAMPLE Batch#: 166114 Lab ID: 221947-001 Analyzed: 08/19/10

Analyte Result RL
Gasoline C7-C12 ND 0.19

Surrogate %REC Limits
Bromofluorobenzene (FID) 98 57-146

Field ID: B-01;5.0-5.5 Moisture: 7% Type: SAMPLE Batch#: 166114 Lab ID: 221947-002 Analyzed: 08/19/10

Analyte Result RL
Gasoline C7-C12 ND 0.19

Surrogate %REC Limits
Bromofluorobenzene (FID) 111 57-146

Field ID: B-01;14.0-14.5 Moisture: 13% Type: SAMPLE Batch#: 166114 Lab ID: 221947-003 Analyzed: 08/19/10

Analyte Result RL
Gasoline C7-C12 ND 0.20

Surrogate %REC Limits
Bromofluorobenzene (FID) 114 57-146

Field ID: B-02;1.0-1.5 Moisture: 15% Type: SAMPLE Batch#: 166114 Lab ID: 221947-004 Analyzed: 08/19/10

Analyte Result RL
Gasoline C7-C12 ND 0.19

Surrogate %REC Limits
Bromofluorobenzene (FID) 103 57-146

ND= Not Detected RL= Reporting Limit

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Gasoline by GC/FID (5035 Prep) 5844 Bancroft Ave 221947 Lab #: Location: Client: Baseline Environmental EPA 5035 Prep: Analysis: Diln Fac: Project#: Y8359-07 EPA 8015B Matrix: Soil 1.000 Units: mg/Kg Sampled: 08/18/10 Basis: drv Received: 08/19/10

Field ID: B-02;5.0-5.5 Moisture: 11% Type: SAMPLE Batch#: 166114 Lab ID: 221947-005 Analyzed: 08/19/10

Analyte Result RL
Gasoline C7-C12 ND 0.21

Surrogate %REC Limits
Bromofluorobenzene (FID) 104 57-146

Field ID: B-02;14-14.5 Moisture: 17% Type: SAMPLE Batch#: 166114 Lab ID: 221947-006 Analyzed: 08/19/10

Analyte Result RL
Gasoline C7-C12 ND 0.23

Surrogate %REC Limits
Bromofluorobenzene (FID) 107 57-146

Field ID: B-03;14.0-14.5 Moisture: 12% Type: SAMPLE Batch#: 166166 Lab ID: 221947-007 Analyzed: 08/20/10

Analyte Result RL
Gasoline C7-C12 ND 0.18

Surrogate %REC Limits
Bromofluorobenzene (FID) 105 57-146

Type: BLANK Batch#: 166114 Lab ID: QC556898 Analyzed: 08/19/10

AnalyteResultRLGasoline C7-C12ND0.20

Surrogate %REC Limits
Bromofluorobenzene (FID) 96 57-146

Type: BLANK Batch#: 166166 Lab ID: QC557105 Analyzed: 08/20/10

Analyte Result RL
Gasoline C7-C12 ND 0.20

Surrogate %REC Limits
Bromofluorobenzene (FID) 96 57-146

ND= Not Detected RL= Reporting Limit

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	Gasoline by	GC/FID (5035 P	Prep)
Lab #:	221947	Location:	5844 Bancroft Ave
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y8359-07	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC556899	Batch#:	166114
Matrix:	Soil	Analyzed:	08/19/10
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9735	97	77-123

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	57-146

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	Gasoline by GC/FID (5035 Prep)					
Lab #:	221947	Location:	5844 Bancroft Ave			
Client:	Baseline Environmental	Prep:	EPA 5030B			
Project#:	Y8359-07	Analysis:	EPA 8015B			
Field ID:	ZZZZZZZZZ	Diln Fac:	1.000			
MSS Lab ID:	221925-002	Batch#:	166114			
Matrix:	Soil	Sampled:	08/17/10			
Units:	mg/Kg	Received:	08/18/10			
Basis:	as received	Analyzed:	08/19/10			

Type: MS Lab ID: QC556902

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1008	9.174	7.715	83	38-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	57-146

Type: MSD Lab ID: QC556903

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.20	7.939	77	38-120	8	56



Gasoline by GC/FID (5035 Prep)						
Lab #:	221947	Location:	5844 Bancroft Ave			
Client:	Baseline Environmental	Prep:	EPA 5035			
Project#:	Y8359-07	Analysis:	EPA 8015B			
Matrix:	Soil	Batch#:	166166			
Units:	mg/Kg	Analyzed:	08/20/10			
Diln Fac:	1.000					

Type: BS Lab ID: QC557103

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9557	96	77-123

Surrogate	%REC	Limits	
Bromofluorobenzene (FID)	98	57-146	

Type: BSD Lab ID: QC557104

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	0.9826	98	77-123	3	26

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	57-146



Total Extractable Hydrocarbons				
Lab #:	221947	Location:	5844 Bancroft Ave	
Client:	Baseline Environmental	Prep:	EPA 3520C	
Project#:	Y8359-07	Analysis:	EPA 8015B	
Field ID:	B-03	Sampled:	08/18/10	
Matrix:	Water	Received:	08/19/10	
Units:	ug/L	Prepared:	08/20/10	
Diln Fac:	1.000	Analyzed:	08/23/10	
Batch#:	166177			

Cleanup Method: EPA 3630C Type: SAMPLE

Lab ID: 221947-008

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	
Motor Oil C24-C36	ND	300	63

Surrogate	%REC	Limits
o-Terphenyl	79	60-129

Type: BLANK Cleanup Method: EPA 3630C

Lab ID: QC557145

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	
Motor Oil C24-C36	ND	300	82

Surrogate	%REC	Limits
o-Terphenyl	90	60-129

ND= Not Detected RL= Reporting Limit

MDL= Method Detection Limit

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39.0



Total Extractable Hydrocarbons				
Lab #:	221947	Location:	5844 Bancroft Ave	
Client:	Baseline Environmental	Prep:	EPA 3520C	
Project#:	Y8359-07	Analysis:	EPA 8015B	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC557146	Batch#:	166177	
Matrix:	Water	Prepared:	08/20/10	
Units:	ug/L	Analyzed:	08/23/10	

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,910	76	54-125

Surrogate	%REC	Limits
o-Terphenyl	90	60-129

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	Total Extractable Hydrocarbons						
Lab #:	221947	Location:	5844 Bancroft Ave				
Client:	Baseline Environmental	Prep:	EPA 3520C				
Project#:	Y8359-07	Analysis:	EPA 8015B				
Field ID:	ZZZZZZZZZ	Batch#:	166177				
MSS Lab ID:	221942-001	Sampled:	08/17/10				
Matrix:	Water	Received:	08/18/10				
Units:	ug/L	Prepared:	08/20/10				
Diln Fac:	1.000	Analyzed:	08/23/10				

Type: MS Cleanup Method: EPA 3630C

Lab ID: QC557147

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<7.661	2,500	1,880	75	46-131

Surrogate	%REC	Limits
o-Terphenyl	84	60-129

Type: MSD Cleanup Method: EPA 3630C

Lab ID: QC557148

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,778	1,980	71	46-131	5	61

Surrogate	%REC	Limits
o-Terphenyl	83	60-129



12%

08/21/10

EPA 3630C

Total Extractable Hydrocarbons Lab #: 221947 5844 Bancroft Ave Location: EPA 3550B Client: Prep: Baseline Environmental Project#: Y8359-07 Analysis: EPA 8015B 166144 Matrix: Soil Batch#: Sampled: 08/18/10 Units: mg/Kg Received: 08/19/10 Basis: dry 1.000 Diln Fac: 08/20/10 Prepared:

Field ID: B-01;1.0-1.5 Moisture: Type: SAMPLE Analyzed: Lab ID: 221947-001 Cleanup Method:

 Analyte
 Result
 RL

 Diesel C10-C24
 2.8 Y
 1.1

 Motor Oil C24-C36
 8.1
 5.7

Surrogate %REC Limits
0-Terphenyl 101 45-130

Field ID: B-01;5.0-5.5 Moisture: 7%

Type: SAMPLE Analyzed: 08/21/10 Lab ID: 221947-002 Cleanup Method: EPA 3630C

 Analyte
 Result
 RL

 Diesel C10-C24
 1.3 Y
 1.1

 Motor Oil C24-C36
 ND
 5.4

Surrogate %REC Limits
O-Terphenyl 74 45-130

Field ID: B-01;14.0-14.5 Moisture: 13%

Type: SAMPLE Analyzed: 08/21/10 Lab ID: 221947-003 Cleanup Method: EPA 3630C

 Analyte
 Result
 RL

 Diesel C10-C24
 ND
 1.1

 Motor Oil C24-C36
 ND
 5.7

Surrogate %REC Limits
O-Terphenyl 73 45-130

Field ID: B-02;1.0-1.5 Moisture: 15%

Type: SAMPLE Analyzed: 08/21/10 Lab ID: 221947-004 Cleanup Method: EPA 3630C

 Analyte
 Result
 RL

 Diesel C10-C24
 4.2 Y
 1.2

 Motor Oil C24-C36
 ND
 5.9

 Surrogate
 %REC
 Limits

 o-Terphenyl
 61
 45-130

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

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Total Extractable Hydrocarbons 5844 Bancroft Ave 221947 Lab #: Location: Client: Baseline Environmental EPA 3550B Prep: Project#: Y8359-07 Analysis: EPA 8015B Matrix: Soil Batch#: 166144 Units: mg/Kg Sampled: 08/18/10 Basis: Received: 08/19/10 dry 1.000 Diln Fac: 08/20/10 Prepared:

Field ID: B-02;5.0-5.5Type: SAMPLE Lab ID:

Moisture: 11% 08/21/10 Analyzed: 221947-005 Cleanup Method: EPA 3630C

Analyte	Result	RL	
Diesel C10-C24	1.6 Y	1.1	
Motor Oil C24-C36	ND	5.6	

Surrogate	%REC	Limits
o-Terphenyl	80	45-130

Field ID: B-02;14-14.5

Moisture: 17% Type: SAMPLE Analyzed: 08/21/10 Lab ID: 221947-006 Cleanup Method: EPA 3630C

Analyte	Result	RL	
Diesel C10-C24	2.9 Y	1.2	
Motor Oil C24-C36	ND	6.0	

Surrogate	%REC	imits	
Surrogate	ONEC	I TILL CO	
o-Terphenyl	9.9	5_130	
0-lerbilellar	22	:3-130	

Field ID: B-03;14.0-14.5 Moisture:

08/21/10 Type: SAMPLE Analyzed: Lab ID: 221947-007 Cleanup Method: EPA 3630C

Analyte	Result	RL	
Diesel C10-C24	ND	1.1	
Motor Oil C24-C36	ND	5.7	

Surrogate	%REC	Limits
o-Terphenyl	61	45-130

Type: BLANK Analyzed: 08/20/10 Lab ID: QC557018 Cleanup Method: EPA 3630C

Analyte	Result	RL	
Diesel C10-C24	ND	1.0	
Motor Oil C24-C36	ND	5.0	

Surrogate	%REC	Limits
o-Terphenyl	92	45-130

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

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Total Extractable Hydrocarbons					
Lab #:	221947	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	EPA 3550B		
Project#:	Y8359-07	Analysis:	EPA 8015B		
Type:	LCS	Diln Fac:	1.000		
Lab ID:	QC557019	Batch#:	166144		
Matrix:	Soil	Prepared:	08/20/10		
Units:	mg/Kg	Analyzed:	08/20/10		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.97	47.74	96	45-143

Surrogate	%REC	Limits
o-Terphenyl	84	45-130

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Total Extractable Hydrocarbons					
Lab #:	221947	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	EPA 3550B		
Project#:	Y8359-07	Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZ	Batch#:	166144		
MSS Lab ID:	221925-002	Sampled:	08/17/10		
Matrix:	Soil	Received:	08/18/10		
Units:	mg/Kg	Prepared:	08/20/10		
Basis:	as received	Analyzed:	08/21/10		
Diln Fac:	3.000				

Type: MS Lab ID: QC557020

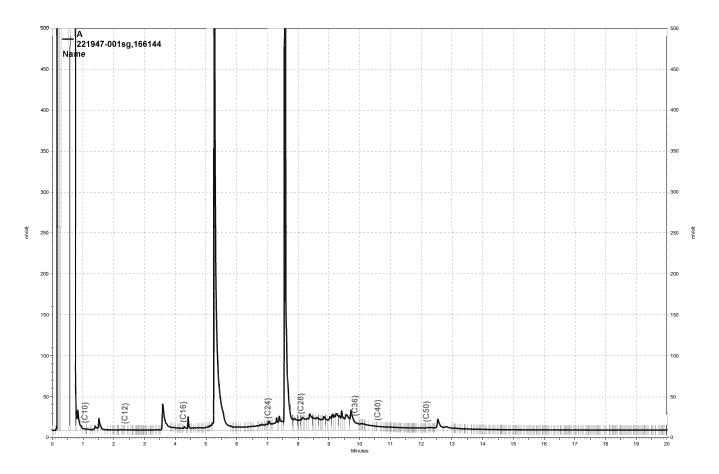
Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	76.89	49.68	115.4	77	32-142

Surrogate	%REC	Limits
o-Terphenyl	107	45-130

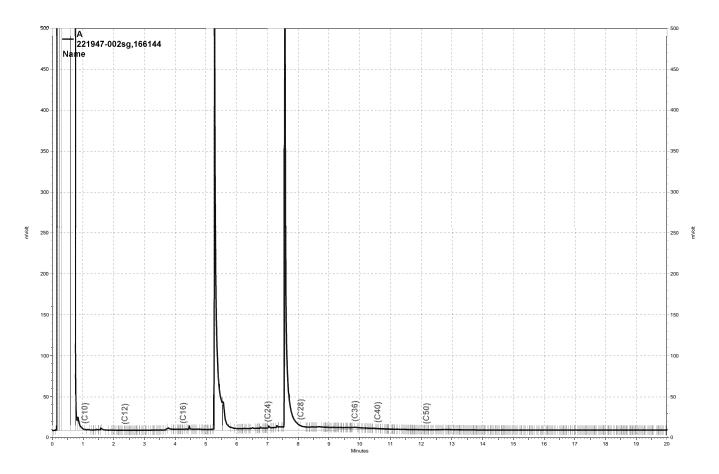
Type: MSD Lab ID: QC557021

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.68	109.5	66	32-142	5	55

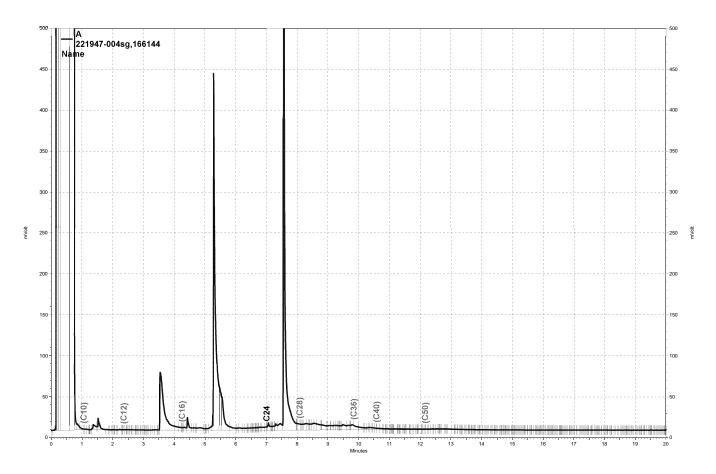
Surrogate	%REC	Limits	
o-Terphenyl	103	45-130	



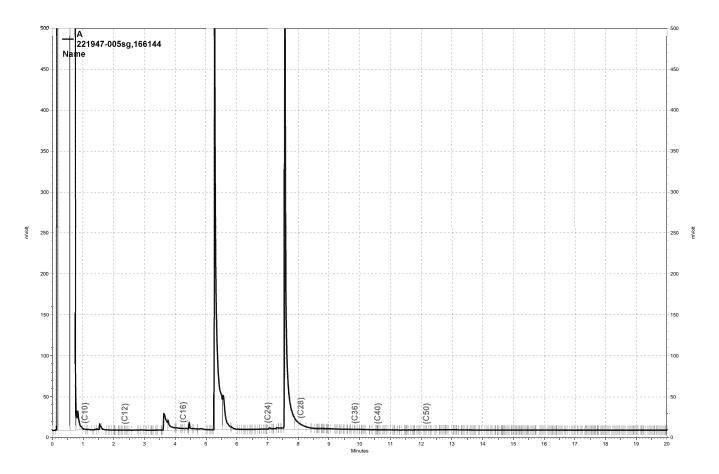
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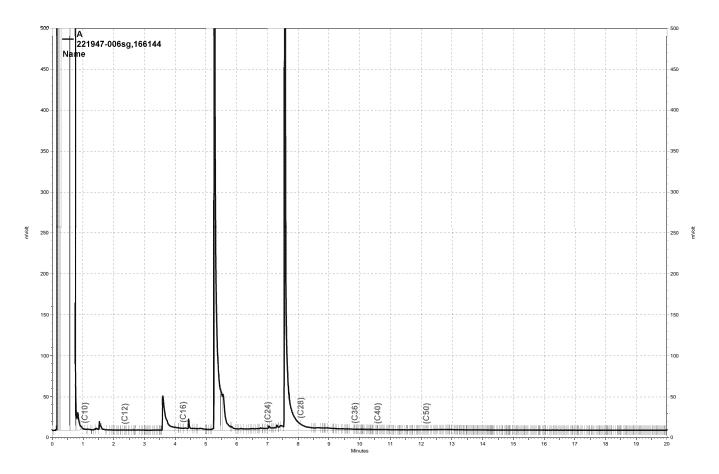
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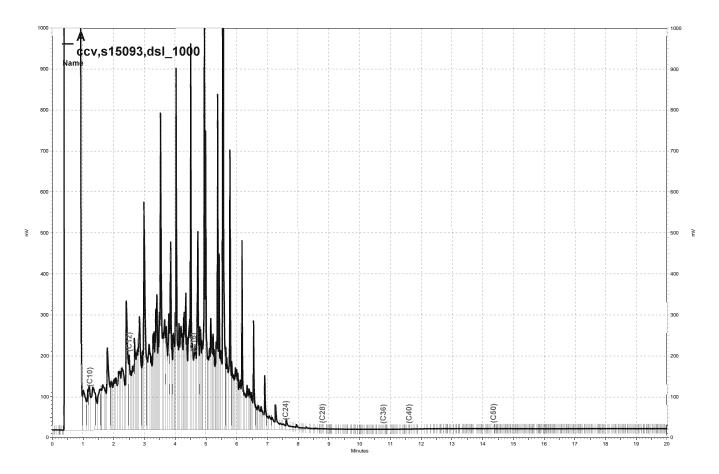
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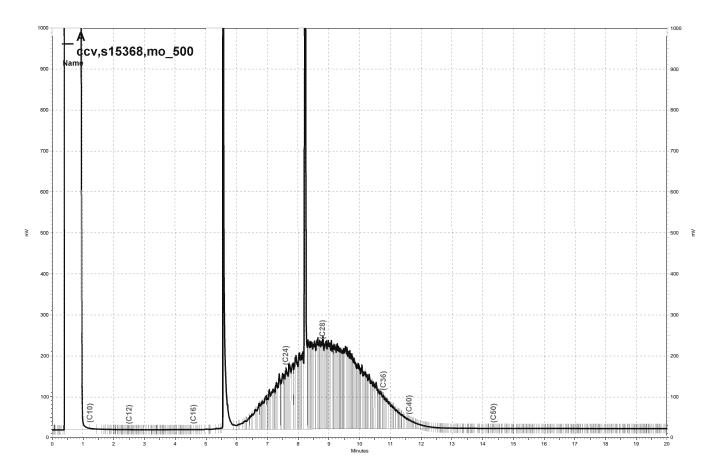
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Purgeable Organics by GC/MS					
Lab #:	221947	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	EPA 5030B		
Project#:	Y8359-07	Analysis:	EPA 8260B		
Field ID:	B-03	Batch#:	166178		
Lab ID:	221947-008	Sampled:	08/18/10		
Matrix:	Water	Received:	08/19/10		
Units:	ug/L	Analyzed:	08/22/10		
Diln Fac:	1.000				

Freon 12 ND 1.0 Chloromethane ND 1.0 Vinyl Chloride ND 0.5 Bromomethane ND 1.0 Chloroethane ND 1.0 Chloroethane ND 1.0 Trichlorofluoromethane ND 1.0 Acetone ND 1.0 Freon 113 ND 2.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 0.5 Vinyl Acetate ND 0.5 2-Butanone ND 0.5 2-Butanone ND 0.5 2,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1-Trichloroethane ND 0.5 1,1-	
Chloromethane ND 1.0 Vinyl Chloride ND 0.5 Bromomethane ND 1.0 Chloroethane ND 1.0 Trichlorofluoromethane ND 1.0 Acetone ND 10 Freon 113 ND 2.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 10 Carbon Disulfide ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5	
Vinyl Chloride ND 0.5 Bromomethane ND 1.0 Chloroethane ND 1.0 Trichlorofluoromethane ND 1.0 Acetone ND 10 Freon 113 ND 2.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 10 Carbon Disulfide ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 2,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5	
Bromomethane	
Chloroethane ND 1.0 Trichlorofluoromethane ND 1.0 Acetone ND 10 Freon 113 ND 2.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 10 Carbon Disulfide ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5	
Trichlorofluoromethane ND 1.0 Acetone ND 10 Freon 113 ND 2.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 10 Carbon Disulfide ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 2,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5	
Acetone ND 10 Freon 113 ND 2.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 10 Carbon Disulfide ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 2,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5	
Freon 113 ND 2.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 10 Carbon Disulfide ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 2,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5	
1,1-DichloroetheneND0.5Methylene ChlorideND10Carbon DisulfideND0.5MTBEND0.5trans-1,2-DichloroetheneND0.5Vinyl AcetateND101,1-DichloroethaneND0.52-ButanoneND10cis-1,2-DichloroetheneND0.52,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.5	
Methylene Chloride ND 10 Carbon Disulfide ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 2,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5	
Carbon Disulfide ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 10 cis-1,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5	
MTBEND0.5trans-1,2-DichloroetheneND0.5Vinyl AcetateND101,1-DichloroethaneND0.52-ButanoneND10cis-1,2-DichloroetheneND0.52,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.5	
trans-1,2-DichloroetheneND0.5Vinyl AcetateND101,1-DichloroethaneND0.52-ButanoneND10cis-1,2-DichloroetheneND0.52,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.5	
Vinyl AcetateND101,1-DichloroethaneND0.52-ButanoneND10cis-1,2-DichloroetheneND0.52,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.5	
1,1-DichloroethaneND0.52-ButanoneND10cis-1,2-DichloroetheneND0.52,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.5	
2-ButanoneND10cis-1,2-DichloroetheneND0.52,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.5	
cis-1,2-DichloroetheneND0.52,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.5	
2,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.5	
Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5	
Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5	
1,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.5	
1,1-DichloropropeneND0.5Carbon TetrachlorideND0.5	
1,1-DichloropropeneND0.5Carbon TetrachlorideND0.5	
Carbon Tetrachloride ND 0.5	
1,2-Dichloroethane ND 0.5	
Benzene ND 0.5	
Trichloroethene ND 0.5	
1,2-Dichloropropane ND 0.5	
Bromodichloromethane ND 0.5	
Dibromomethane ND 0.5	
4-Methyl-2-Pentanone ND 10	
cis-1,3-Dichloropropene ND 0.5	
Toluene ND 0.5	
trans-1,3-Dichloropropene ND 0.5	
1,1,2-Trichloroethane ND 0.5	
2-Hexanone ND 10	
1,3-Dichloropropane ND 0.5	
Tetrachloroethene ND 0.5	

ND= Not Detected

RL= Reporting Limit

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Purgeable Organics by GC/MS					
Lab #:	221947	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	EPA 5030B		
Project#:	Y8359-07	Analysis:	EPA 8260B		
Field ID:	B-03	Batch#:	166178		
Lab ID:	221947-008	Sampled:	08/18/10		
Matrix:	Water	Received:	08/19/10		
Units:	ug/L	Analyzed:	08/22/10		
Diln Fac:	1.000	•			

Analyte	Result	RL	
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	

Surrogate	%REC	Limits	
Dibromofluoromethane	100	80-122	
1,2-Dichloroethane-d4	74	71-140	
Toluene-d8	88	80-120	
Bromofluorobenzene	94	80-121	

ND= Not Detected

RL= Reporting Limit



	Purgeable (Organics by GC/	/MS	
Lab #:	221947	Location:	5844 Bancroft Ave	
Client:	Baseline Environmental	Prep:	EPA 5030B	
Project#:	Y8359-07	Analysis:	EPA 8260B	
Type:	BLANK	Diln Fac:	1.000	
Lab ID:	QC557149	Batch#:	166178	
Matrix:	Water	Analyzed:	08/22/10	
Units:	ug/L			

Analyte	Result	RL	
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Acetone	ND	10	
Freon 113	ND	2.0	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



Purgeable Organics by GC/MS					
Lab #:	221947	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	EPA 5030B		
Project#:	Y8359-07	Analysis:	EPA 8260B		
Type:	BLANK	Diln Fac:	1.000		
Lab ID:	QC557149	Batch#:	166178		
Matrix:	Water	Analyzed:	08/22/10		
Units:	ug/L				

Analyte	Result	RL	
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	

Surrogate	%REC	Limits	
Dibromofluoromethane	100	80-122	
1,2-Dichloroethane-d4	75	71-140	
Toluene-d8	88	80-120	
Bromofluorobenzene	96	80-121	

ND= Not Detected

RL= Reporting Limit



	Purgeable Or	ganics by GC/MS	3
Lab #:	221947	Location:	5844 Bancroft Ave
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y8359-07	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	166178
Units:	ug/L	Analyzed:	08/22/10
Diln Fac:	1.000		

Type: BS Lab ID: QC557150

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	21.34	107	72-138
Benzene	20.00	20.68	103	80-122
Trichloroethene	20.00	20.47	102	80-122
Toluene	20.00	19.91	100	80-120
Chlorobenzene	20.00	20.65	103	80-120

Surrogate	%REC	Limits	
Dibromofluoromethane	99	80-122	
1,2-Dichloroethane-d4	76	71-140	
Toluene-d8	87	80-120	
Bromofluorobenzene	90	80-121	

Type: BSD Lab ID: QC557151

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	20.00	20.48	102	72-138	4	20
Benzene	20.00	19.98	100	80-122	3	20
Trichloroethene	20.00	19.69	98	80-122	4	20
Toluene	20.00	19.00	95	80-120	5	20
Chlorobenzene	20.00	19.79	99	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	76	71-140
Toluene-d8	87	80-120
Bromofluorobenzene	91	80-121



Purgeable Organics by GC/MS						
Lab #:	221947	Location:	5844 Bancroft Ave			
Client:	Baseline Environmental	Prep:	EPA 5035			
Project#:	Y8359-07	Analysis:	EPA 8260B			
Field ID:	B-01;1.0-1.5	Diln Fac:	0.8711			
Lab ID:	221947-001	Batch#:	166151			
Matrix:	Soil	Sampled:	08/18/10			
Units:	ug/Kg	Received:	08/19/10			
Basis:	dry	Analyzed:	08/20/10			

12% Moisture:

Analyte	Result	RL	MDL
Freon 12	ND	9.9	1101
Chloromethane	ND	9.9	
Vinyl Chloride	ND	9.9	
Bromomethane	ND	9.9	
Chloroethane	ND	9.9	
Trichlorofluoromethane	ND	4.9	
Acetone	21	20	
Freon 113	ND	4.9	
1,1-Dichloroethene	ND	4.9	
		20	
Methylene Chloride	ND		
Carbon Disulfide	ND	4.9	
MTBE	ND	4.9	
trans-1,2-Dichloroethene	ND	4.9	
Vinyl Acetate	ND	49	
1,1-Dichloroethane	ND	4.9	
2-Butanone	ND	9.9	
cis-1,2-Dichloroethene	ND	4.9	
2,2-Dichloropropane	ND	4.9	
Chloroform	ND	4.9	
Bromochloromethane	ND	4.9	
1,1,1-Trichloroethane	ND	4.9	
1,1-Dichloropropene	ND	4.9	
Carbon Tetrachloride	ND	4.9	
1,2-Dichloroethane	ND	4.9	0.70
Benzene	ND	4.9	3.70
Trichloroethene	ND	4.9	
1,2-Dichloropropane	ND	4.9	
Bromodichloromethane	ND	4.9	
Dibromomethane	ND	4.9	
4-Methyl-2-Pentanone	ND	9.9	
cis-1,3-Dichloropropene	ND	4.9	
Toluene	ND ND	4.9	
		4.9	
trans-1,3-Dichloropropene	ND	4.9	
1,1,2-Trichloroethane	ND		
2-Hexanone	ND	9.9	
1,3-Dichloropropane	ND	4.9	
Tetrachloroethene	ND	4.9	
Dibromochloromethane	ND	4.9	
1,2-Dibromoethane	ND	4.9	
Chlorobenzene	ND	4.9	
1,1,1,2-Tetrachloroethane	ND	4.9	
Ethylbenzene	ND	4.9	
m,p-Xylenes	ND	4.9	
o-Xylene	ND	4.9	
Styrene	ND	4.9	
Bromoform	ND	4.9	
Isopropylbenzene	ND	4.9	
1,1,2,2-Tetrachloroethane	ND	4.9	
1,2,3-Trichloropropane	ND	4.9	
Propylbenzene	ND	4.9	
Bromobenzene	ND	4.9	
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ND= Not Detected RL= Reporting Limit MDL= Method Detection Limit Page 1 of 2



Purgeable Organics by GC/MS						
Lab #:	221947	Location:	5844 Bancroft Ave			
Client:	Baseline Environmental	Prep:	EPA 5035			
Project#:	Y8359-07	Analysis:	EPA 8260B			
Field ID:	B-01;1.0-1.5	Diln Fac:	0.8711			
Lab ID:	221947-001	Batch#:	166151			
Matrix:	Soil	Sampled:	08/18/10			
Units:	uq/Kq	Received:	08/19/10			
Basis:	dry	Analyzed:	08/20/10			

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	4.9	
2-Chlorotoluene	ND	4.9	
4-Chlorotoluene	ND	4.9	
tert-Butylbenzene	ND	4.9	
1,2,4-Trimethylbenzene	ND	4.9	
sec-Butylbenzene	ND	4.9	
para-Isopropyl Toluene	ND	4.9	
1,3-Dichlorobenzene	ND	4.9	
1,4-Dichlorobenzene	ND	4.9	
n-Butylbenzene	ND	4.9	
1,2-Dichlorobenzene	ND	4.9	
1,2-Dibromo-3-Chloropropane	ND	4.9	
1,2,4-Trichlorobenzene	ND	4.9	
Hexachlorobutadiene	ND	4.9	
Naphthalene	ND	4.9	
1,2,3-Trichlorobenzene	ND	4.9	

Surrogate	%REC	Limits	
Dibromofluoromethane	95	78-122	
1,2-Dichloroethane-d4	105	68-152	
Toluene-d8	100	80-120	
Bromofluorobenzene	100	76-132	



Purgeable Organics by GC/MS						
Lab #:	221947	Location:	5844 Bancroft Ave			
Client:	Baseline Environmental	Prep:	EPA 5035			
Project#:	Y8359-07	Analysis:	EPA 8260B			
Field ID:	B-01;5.0-5.5	Diln Fac:	0.8065			
Lab ID:	221947-002	Batch#:	166151			
Matrix:	Soil	Sampled:	08/18/10			
Units:	ug/Kg	Received:	08/19/10			
Basis:	dry	Analyzed:	08/20/10			

7% Moisture:

Analyte	Result	RL	MDL
Freon 12	ND	8.7	 -
Chloromethane	ND	8.7	
Vinyl Chloride	ND	8.7	
Bromomethane	ND	8.7	
Chloroethane	ND	8.7	
Trichlorofluoromethane	ND ND	4.3	
Acetone	64	17	
Freon 113	ND	4.3	
1,1-Dichloroethene	ND ND	4.3	
Methylene Chloride	ND ND	17	
Carbon Disulfide	ND ND	4.3	
MTBE	ND ND	4.3	
		4.3	
trans-1,2-Dichloroethene	ND	4.3	
Vinyl Acetate	ND ND	4.3	
1,1-Dichloroethane	ND		
2-Butanone	ND ND	8.7	
cis-1,2-Dichloroethene	ND	4.3	
2,2-Dichloropropane	ND	4.3	
Chloroform	ND	4.3	
Bromochloromethane	ND	4.3	
1,1,1-Trichloroethane	ND	4.3	
1,1-Dichloropropene	ND	4.3	
Carbon Tetrachloride	ND	4.3	0.64
1,2-Dichloroethane	ND	4.3	0.61
Benzene	ND	4.3	
Trichloroethene	ND	4.3	
1,2-Dichloropropane	ND	4.3	
Bromodichloromethane	ND	4.3	
Dibromomethane	ND	4.3	
4-Methyl-2-Pentanone	ND	8.7	
cis-1,3-Dichloropropene	ND	4.3	
Toluene	ND	4.3	
trans-1,3-Dichloropropene	ND	4.3	
1,1,2-Trichloroethane	ND	4.3	
2-Hexanone	ND	8.7	
1,3-Dichloropropane	ND	4.3	
Tetrachloroethene	ND	4.3	
Dibromochloromethane	ND	4.3	
1,2-Dibromoethane	ND	4.3	
Chlorobenzene	ND	4.3	
1,1,1,2-Tetrachloroethane	ND	4.3	
Ethylbenzene	ND	4.3	
m,p-Xylenes	ND	4.3	
o-Xylene	ND	4.3	
Styrene	ND	4.3	
Bromoform	ND	4.3	
Isopropylbenzene	ND	4.3	
1,1,2,2-Tetrachloroethane	ND	4.3	
1,2,3-Trichloropropane	ND	4.3	
Propylbenzene	ND	4.3	
Bromobenzene	ND	4.3	

ND= Not Detected RL= Reporting Limit MDL= Method Detection Limit Page 1 of 2



Purgeable Organics by GC/MS						
Lab #:	221947	Location:	5844 Bancroft Ave			
Client:	Baseline Environmental	Prep:	EPA 5035			
Project#:	Y8359-07	Analysis:	EPA 8260B			
Field ID:	B-01;5.0-5.5	Diln Fac:	0.8065			
Lab ID:	221947-002	Batch#:	166151			
Matrix:	Soil	Sampled:	08/18/10			
Units:	ug/Kg	Received:	08/19/10			
Basis:	dry	Analyzed:	08/20/10			

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	4.3	
2-Chlorotoluene	ND	4.3	
4-Chlorotoluene	ND	4.3	
tert-Butylbenzene	ND	4.3	
1,2,4-Trimethylbenzene	ND	4.3	
sec-Butylbenzene	ND	4.3	
para-Isopropyl Toluene	ND	4.3	
1,3-Dichlorobenzene	ND	4.3	
1,4-Dichlorobenzene	ND	4.3	
n-Butylbenzene	ND	4.3	
1,2-Dichlorobenzene	ND	4.3	
1,2-Dibromo-3-Chloropropane	ND	4.3	
1,2,4-Trichlorobenzene	ND	4.3	
Hexachlorobutadiene	ND	4.3	
Naphthalene	ND	4.3	
1,2,3-Trichlorobenzene	ND	4.3	

Surrogate	%REC	Limits	
Dibromofluoromethane	95	78-122	
1,2-Dichloroethane-d4	106	68-152	
Toluene-d8	99	80-120	
Bromofluorobenzene	101	76-132	



Purgeable Organics by GC/MS						
Lab #:	221947	Location:	5844 Bancroft Ave			
Client:	Baseline Environmental	Prep:	EPA 5035			
Project#:	Y8359-07	Analysis:	EPA 8260B			
Field ID:	B-01;14.0-14.5	Diln Fac:	0.8183			
Lab ID:	221947-003	Batch#:	166151			
Matrix:	Soil	Sampled:	08/18/10			
Units:	ug/Kg	Received:	08/19/10			
Basis:	dry	Analyzed:	08/20/10			

Moisture: 13%

Preon 12	Analyte	Result	RL	MDL
Chloromethane				 -
Vinyl Chloride				
Bromomethane				
Chloroethane			9 4	
Trichlorofluoromethane				
Acetone 59				
Freen 113				
1.1-Dichloroethene				
Methylene Chloride				
Carbon Disulfide				
MTBE				
Trans-1, 2-Dichloroethene				
Vinyl Acetate ND 47 1,1-Dichloroethane ND 9.4 cis-1,2-Dichloroethene ND 9.4 cis-1,2-Dichloropropane ND 4.7 2,2-Dichloropropane ND 4.7 Chloroform ND 4.7 Promochloromethane ND 4.7 1,1-Tichloroethane ND 4.7 1,1-Dichloropropene ND 4.7 Carbon Tetrachloride ND 4.7 1,2-Dichloropropane ND 4.7 Benzene ND 4.7 Trichloropropane ND 4.7 Promodichloromethane ND 4.7 1,2-Dichloropropane ND 4.7 Promodichloromethane ND 4.7 Promodichloromethane ND 4.7 Packanol-2-Pentanone ND 4.7 Cis-1,3-Dichloropropene ND 4.7 Toluene ND 4.7 Toluene ND 4.7 2-Hexanone	1			
1,1-pichloroethane				
2-Butanone	- .			
cis-1,2-Dichloroptopane ND 4.7 2,2-Dichloropropane ND 4.7 Chloroform ND 4.7 Bromochloromethane ND 4.7 1,1,1-Trichloroethane ND 4.7 1,1-Dichloropropene ND 4.7 1,2-Dichloroptopene ND 4.7 1,2-Dichloroethane ND 4.7 Benzene ND 4.7 Trichloroethene ND 4.7 1,2-Dichloropropane ND 4.7 Bromodichloromethane ND 4.7 Toluene ND 4.7 Trichloropropene ND 4.7 trans-1,3-Dichloropropene ND 4.7 trans-1,3-Dichloropropene ND 4.7 Teta				
2,2-pichloropropane				
Chloroform	cis-1,2-Dichioroethene			
Bromochloromethane				
1,1,1-Trichloroethane				
1,1-Dichloropropene				
Carbon Tetrachloride ND 4.7 1,2-Dichlorethane ND 4.7 Benzene ND 4.7 Trichloroethene ND 4.7 1,2-Dichloropropane ND 4.7 Bromodichloromethane ND 4.7 Dibromomethane ND 4.7 4-Methyl-2-Pentanone ND 9.4 cis-1,3-Dichloropropene ND 4.7 Toluene ND 4.7 trans-1,3-Dichloropropene ND 4.7 1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 4.7 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Bromoform ND				
1,2-Dichloroethane				
Benzene				
Trichloroethene	1,2-Dichloroethane			0.66
1,2-Dichloropropane				
Bromodichloromethane		ND		
Dibromomethane ND 4.7 4-Methyl-2-Pentanone ND 9.4 cis-1,3-Dichloropropene ND 4.7 Toluene ND 4.7 trans-1,3-Dichloropropene ND 4.7 1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 9.4 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7 Propylbenzene	1,2-Dichloropropane	ND		
4-Methyl-2-Pentanone ND 9.4 cis-1,3-Dichloropropene ND 4.7 Toluene ND 4.7 trans-1,3-Dichloropropene ND 4.7 1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 9.4 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromochloromethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7 ND 4.7 Propylbenzene ND 4.7 ND 4.7 Propylbenzene ND	Bromodichloromethane	ND	= * :	
cis-1,3-Dichloropropene ND 4.7 Toluene ND 4.7 trans-1,3-Dichloropropene ND 4.7 1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 9.4 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Bromoform ND 4.7 1,2,2-Tetrachloroethane ND 4.7 1,2,2-Tetrachloropopane ND 4.7 Propylbenzene ND 4.7 Propylbenzene ND 4.7 A.7 4.7 4.7		ND		
Toluene		ND	9.4	
trans-1,3-Dichloropropene ND 4.7 1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 9.4 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7 Propylbenzene ND 4.7	cis-1,3-Dichloropropene	ND	4.7	
1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 9.4 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 Chlorobenzene ND 4.7 1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7 Propylbenzene ND 4.7	Toluene	ND	4.7	
1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 9.4 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	trans-1,3-Dichloropropene	ND	4.7	
2-Hexanone ND 9.4 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	1,1,2-Trichloroethane	ND	4.7	
Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 Isopropylbenzene ND 4.7 Isopropylbenzene ND 4.7 Isopropylbenzene ND 4.7 Incompage ND 4.7	2-Hexanone	ND	9.4	
Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	1,3-Dichloropropane	ND	4.7	
1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7		ND	4.7	
1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	Dibromochloromethane	ND	4.7	
1,1,1,2-TetrachloroethaneND4.7EthylbenzeneND4.7m,p-XylenesND4.7o-XyleneND4.7StyreneND4.7BromoformND4.7IsopropylbenzeneND4.71,1,2,2-TetrachloroethaneND4.71,2,3-TrichloropropaneND4.7PropylbenzeneND4.7		ND	4.7	
Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	Chlorobenzene	ND	4.7	
Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	1,1,1,2-Tetrachloroethane	ND	4.7	
m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7		ND	4.7	
o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	m,p-Xvlenes	ND	4.7	
StyreneND4.7BromoformND4.7IsopropylbenzeneND4.71,1,2,2-TetrachloroethaneND4.71,2,3-TrichloropropaneND4.7PropylbenzeneND4.7				
Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7				
IsopropylbenzeneND4.71,1,2,2-TetrachloroethaneND4.71,2,3-TrichloropropaneND4.7PropylbenzeneND4.7				
1,1,2,2-TetrachloroethaneND4.71,2,3-TrichloropropaneND4.7PropylbenzeneND4.7				
1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	1.1.2.2-Tetrachloroethane			
Propylbenzene ND 4.7				
	Bromobenzene	ND	4.7	

ND= Not Detected RL= Reporting Limit MDL= Method Detection Limit Page 1 of 2



Purgeable Organics by GC/MS					
Lab #:	221947	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	EPA 5035		
Project#:	Y8359-07	Analysis:	EPA 8260B		
Field ID:	B-01;14.0-14.5	Diln Fac:	0.8183		
Lab ID:	221947-003	Batch#:	166151		
Matrix:	Soil	Sampled:	08/18/10		
Units:	uq/Kq	Received:	08/19/10		
Basis:	dry	Analyzed:	08/20/10		

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	4.7	
2-Chlorotoluene	ND	4.7	
4-Chlorotoluene	ND	4.7	
tert-Butylbenzene	ND	4.7	
1,2,4-Trimethylbenzene	ND	4.7	
sec-Butylbenzene	ND	4.7	
para-Isopropyl Toluene	ND	4.7	
1,3-Dichlorobenzene	ND	4.7	
1,4-Dichlorobenzene	ND	4.7	
n-Butylbenzene	ND	4.7	
1,2-Dichlorobenzene	ND	4.7	
1,2-Dibromo-3-Chloropropane	ND	4.7	
1,2,4-Trichlorobenzene	ND	4.7	
Hexachlorobutadiene	ND	4.7	
Naphthalene	ND	4.7	
1,2,3-Trichlorobenzene	ND	4.7	

Surrogate	%REC	Limits	
Dibromofluoromethane	98	78-122	
1,2-Dichloroethane-d4	106	68-152	
Toluene-d8	98	80-120	
Bromofluorobenzene	100	76-132	



Purgeable Organics by GC/MS					
Lab #:	221947	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	EPA 5035		
Project#:	Y8359-07	Analysis:	EPA 8260B		
Field ID:	B-02;1.0-1.5	Diln Fac:	0.8333		
Lab ID:	221947-004	Batch#:	166151		
Matrix:	Soil	Sampled:	08/18/10		
Units:	ug/Kg	Received:	08/19/10		
Basis:	dry	Analyzed:	08/20/10		

Moisture: 15%

Free	Analyte	Result	RL	MDL
Chloromethane				1101
Vinyl Chloride				
Bromomethane				
Chloroethane			9.8	
Trichlorofluoromethane				
Acetone				
Freen 113				
1.1-Dichlorosthene				
Methylene Chloride				
Carbon Disulfide				
MTBE ND 4.9 1.7				
Trans-1, 2-Dichloroethene				
Vinyl Acetate				
1.1-Dichloroethane				
2-Butanone			49	
cis-1,2-Dichloroptopane ND 4.9 2,2-Dichloropropane ND 4.9 Chloroform ND 4.9 Bromochloromethane ND 4.9 1.1,1-Trichloropthane ND 4.9 1,1-Dichloropropene ND 4.9 Carbon Tetrachloride ND 4.9 1,2-Dichloropthane ND 4.9 Benzene ND 4.9 Trichloropthene ND 4.9 1,2-Dichloropropane ND 4.9 Bromodichloromethane ND 4.9 1,2-Dichloropropane ND 4.9 Bromodichloromethane ND 4.9 4-Methyl-2-Pentanone ND 4.9 cis-1,3-Dichloropropene ND 4.9 trans-1,3-Dichloropropene ND 4.9 trans-1,3-Dichloropropene ND 4.9 trans-1,3-Dichloropropane ND 4.9 trans-1,3-Dichloropropane ND 4.9 Tetrachloropropane ND 4.9 <td></td> <td></td> <td></td> <td></td>				
2,2-pichloropropane				
Chloroform				
Bromochloromethane				
1,1-Trichloroethane				
1,1-Dichloropropene			4.9	
Carbon Tetrachloride ND 4.9 1,2-Dichlorethane ND 4.9 Benzene ND 4.9 Trichloroethene ND 4.9 1,2-Dichloropropane ND 4.9 Bromodichloromethane ND 4.9 Bromodichloromethane ND 4.9 4-Methyl-2-Pentanone ND 4.9 4-Methyl-2-Pentanone ND 4.9 cis-1,3-Dichloropropene ND 4.9 Toluene ND 4.9 trans-1,3-Dichloropropene ND 4.9 1,1,2-Trichloroethane ND 4.9 2-Hexanone ND 4.9 1,3-Dichloropropane ND 4.9 Tetrachloroethane ND 4.9 Dibromochloromethane ND 4.9 1,2-Dibromoethane ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 Ethylbenzene ND 4.9 m,p-Xylenes ND 4.9 Bromoform			4.9	
1.2-Dichloroethane		ND	4.9	
Benzene			4.9	
Trichloroethene	1,2-Dichloroethane	ND		0.69
1,2-Dichloropropane ND 4.9 Bromodichloromethane ND 4.9 Dibromomethane ND 4.9 4-Methyl-2-Pentanone ND 9.8 cis-1,3-Dichloropropene ND 4.9 Toluene ND 4.9 trans-1,3-Dichloropropene ND 4.9 1,1,2-Trichloroethane ND 4.9 2-Hexanone ND 9.8 1,3-Dichloropropane ND 4.9 Tetrachloroethene ND 4.9 Dibromochloromethane ND 4.9 1,2-Dibromoethane ND 4.9 Chlorobenzene ND 4.9 1,1,2-Tetrachloroethane ND 4.9 Ethylbenzene ND 4.9 m,-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 1,2,3-Trichloropropane ND 4.9 <td></td> <td>ND</td> <td></td> <td></td>		ND		
Bromodichloromethane	Trichloroethene	ND		
Dibromomethane ND 4.9 4-Methyl-2-Pentanone ND 9.8 cis-1,3-Dichloropropene ND 4.9 Toluene ND 4.9 trans-1,3-Dichloropropene ND 4.9 1,1,2-Trichloroethane ND 4.9 2-Hexanone ND 9.8 1,3-Dichloropropane ND 4.9 Tetrachloroethene ND 4.9 Dibromochloromethane ND 4.9 1,2-Dibromoethane ND 4.9 Chlorobenzene ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 Ethylbenzene ND 4.9 m,p-Xylenes ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 1,2,3-Trichloropropane	1,2-Dichloropropane	ND		
4-Methyl-2-Pentanone ND 9.8 cis-1,3-Dichloropropene ND 4.9 Toluene ND 4.9 trans-1,3-Dichloropropene ND 4.9 1,1,2-Trichloroethane ND 4.9 2-Hexanone ND 9.8 1,3-Dichloropropane ND 4.9 Tetrachloroethene ND 4.9 Dibromochloromethane ND 4.9 1,2-Dibromoethane ND 4.9 Chlorobenzene ND 4.9 Chlorobenzene ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 Ethylbenzene ND 4.9 m,-Xylenes ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9	Bromodichloromethane	ND	4.9	
cis-1,3-Dichloropropene ND 4.9 Toluene ND 4.9 trans-1,3-Dichloropropene ND 4.9 1,1,2-Trichloroethane ND 4.9 2-Hexanone ND 9.8 1,3-Dichloropropane ND 4.9 Tetrachloropropane ND 4.9 Tetrachloroethene ND 4.9 Dibromochloromethane ND 4.9 1,2-Dibromoethane ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 m,p-Xylenes ND 4.9 m,p-Xylenes ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 1,2,3-Trichloropropane ND 4.9 1,2,9-Trichloropropane ND 4.9 1,2,9-Trichlo	Dibromomethane	ND		
Toluene ND 4.9 trans-1,3-Dichloropropene ND 4.9 1,1,2-Trichloroethane ND 4.9 2-Hexanone ND 9.8 1,3-Dichloropropane ND 4.9 Tetrachloroethene ND 4.9 Dibromochloromethane ND 4.9 1,2-Dibromoethane ND 4.9 Chlorobenzene ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 Ethylbenzene ND 4.9 m,-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9	4-Methyl-2-Pentanone	ND	9.8	
trans-1,3-Dichloropropene ND 4.9 1,1,2-Trichloroethane ND 4.9 2-Hexanone ND 9.8 1,3-Dichloropropane ND 4.9 Tetrachloroethene ND 4.9 Dibromochloromethane ND 4.9 1,2-Dibromoethane ND 4.9 Chlorobenzene ND 4.9 1,1,2-Tetrachloroethane ND 4.9 Ethylbenzene ND 4.9 m,p-Xylenes ND 4.9 o-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9 1,2,3-Trichloropropane ND 4.9 1,2,9 4.9	cis-1,3-Dichloropropene	ND		
1,1,2-Trichloroethane ND 4.9 2-Hexanone ND 9.8 1,3-Dichloropropane ND 4.9 Tetrachloroethene ND 4.9 Dibromochloromethane ND 4.9 1,2-Dibromoethane ND 4.9 Chlorobenzene ND 4.9 Chlorobenzene ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 m,p-Xylenes ND 4.9 m,p-Xylenes ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9 Propylbenzene ND 4.9	Toluene	ND	4.9	
1,1,2-Trichloroethane ND 4.9 2-Hexanone ND 9.8 1,3-Dichloropropane ND 4.9 Tetrachloroethene ND 4.9 Dibromochloromethane ND 4.9 1,2-Dibromoethane ND 4.9 Chlorobenzene ND 4.9 1,1,2-Tetrachloroethane ND 4.9 Ethylbenzene ND 4.9 m,p-Xylenes ND 4.9 o-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,2,2-Tetrachloroethane ND 4.9 Propylbenzene ND 4.9	trans-1,3-Dichloropropene	ND	4.9	
1,3-DichloropropaneND4.9TetrachloroetheneND4.9DibromochloromethaneND4.91,2-DibromoethaneND4.9ChlorobenzeneND4.91,1,1,2-TetrachloroethaneND4.9EthylbenzeneND4.9m,p-XylenesND4.9o-XyleneND4.9StyreneND4.9BromoformND4.9IsopropylbenzeneND4.91,2,2-TetrachloroethaneND4.91,2,3-TrichloropropaneND4.9PropylbenzeneND4.9	1,1,2-Trichloroethane	ND	4.9	
Tetrachloroethene ND 4.9 Dibromochloromethane ND 4.9 1,2-Dibromoethane ND 4.9 Chlorobenzene ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 Ethylbenzene ND 4.9 m,p-Xylenes ND 4.9 o-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 Isopropylbenzene ND 4.9 I,2,2-Tetrachloroethane ND 4.9 I,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9 Propylbenzene ND 4.9 Propylbenzene ND 4.9 Propylbenzene ND 4.9	2-Hexanone	ND	9.8	
Dibromochloromethane ND 4.9 1,2-Dibromoethane ND 4.9 Chlorobenzene ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 Ethylbenzene ND 4.9 m,p-Xylenes ND 4.9 o-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9 Propylbenzene ND 4.9 Propylbenzene ND 4.9 Propylbenzene ND 4.9	1,3-Dichloropropane	ND		
1,2-Dibromoethane ND 4.9 Chlorobenzene ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 Ethylbenzene ND 4.9 m,p-Xylenes ND 4.9 o-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,2,2-Tetrachloroethane ND 4.9 Propylbenzene ND 4.9 Propylbenzene ND 4.9		ND	4.9	
1,2-Dibromoethane ND 4.9 Chlorobenzene ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 Ethylbenzene ND 4.9 m,p-Xylenes ND 4.9 o-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,2,2-Tetrachloroethane ND 4.9 Propylbenzene ND 4.9 Propylbenzene ND 4.9	Dibromochloromethane	ND	4.9	
Chlorobenzene ND 4.9 1,1,1,2-Tetrachloroethane ND 4.9 Ethylbenzene ND 4.9 m,p-Xylenes ND 4.9 o-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9		ND	4.9	
Ethylbenzene ND 4.9 m,p-Xylenes ND 4.9 o-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9 Propylbenzene ND 4.9	Chlorobenzene	ND		
Ethylbenzene ND 4.9 m,p-Xylenes ND 4.9 o-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9 Propylbenzene ND 4.9	1,1,1,2-Tetrachloroethane	ND	4.9	
m,p-Xylenes ND 4.9 o-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9		ND		
o-Xylene ND 4.9 Styrene ND 4.9 Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9	m,p-Xvlenes	ND	4.9	
StyreneND4.9BromoformND4.9IsopropylbenzeneND4.91,1,2,2-TetrachloroethaneND4.91,2,3-TrichloropropaneND4.9PropylbenzeneND4.9				
Bromoform ND 4.9 Isopropylbenzene ND 4.9 1,1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9				
Isopropylbenzene ND 4.9 1,1,2,2-Tetrachloroethane ND 4.9 1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9 4.9				
1,1,2,2-TetrachloroethaneND4.91,2,3-TrichloropropaneND4.9PropylbenzeneND4.9	Isopropylbenzene			
1,2,3-Trichloropropane ND 4.9 Propylbenzene ND 4.9				
Propylbenzene ND 4.9				
	Bromobenzene	ND	4.9	

ND= Not Detected RL= Reporting Limit MDL= Method Detection Limit Page 1 of 2



Purgeable Organics by GC/MS					
Lab #:	221947	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	EPA 5035		
Project#:	Y8359-07	Analysis:	EPA 8260B		
Field ID:	B-02;1.0-1.5	Diln Fac:	0.8333		
Lab ID:	221947-004	Batch#:	166151		
Matrix:	Soil	Sampled:	08/18/10		
Units:	ug/Kg	Received:	08/19/10		
Basis:	dry	Analyzed:	08/20/10		

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	4.9	
2-Chlorotoluene	ND	4.9	
4-Chlorotoluene	ND	4.9	
tert-Butylbenzene	ND	4.9	
1,2,4-Trimethylbenzene	ND	4.9	
sec-Butylbenzene	ND	4.9	
para-Isopropyl Toluene	ND	4.9	
1,3-Dichlorobenzene	ND	4.9	
1,4-Dichlorobenzene	ND	4.9	
n-Butylbenzene	ND	4.9	
1,2-Dichlorobenzene	ND	4.9	
1,2-Dibromo-3-Chloropropane	ND	4.9	
1,2,4-Trichlorobenzene	ND	4.9	
Hexachlorobutadiene	ND	4.9	
Naphthalene	ND	4.9	
1,2,3-Trichlorobenzene	ND	4.9	

Surrogate	%REC	Limits	
Dibromofluoromethane	103	78-122	
1,2-Dichloroethane-d4	107	68-152	
Toluene-d8	97	80-120	
Bromofluorobenzene	101	76-132	



Purgeable Organics by GC/MS						
Lab #:	221947	Location:	5844 Bancroft Ave			
Client:	Baseline Environmental	Prep:	EPA 5035			
Project#:	Y8359-07	Analysis:	EPA 8260B			
Field ID:	B-02;5.0-5.5	Diln Fac:	1.031			
Lab ID:	221947-005	Batch#:	166151			
Matrix:	Soil	Sampled:	08/18/10			
Units:	ug/Kg	Received:	08/19/10			
Basis:	dry	Analyzed:	08/20/10			

11% Moisture:

Analyte	Result	RL	MDL
Freon 12	ND	12	1101
Chloromethane	ND	12	
Vinyl Chloride	ND	12	
Bromomethane	ND	12	
Chloroethane	ND	12	
Trichlorofluoromethane	ND ND	5.8	
Acetone	300 >LR b	23	
Freon 113	DND ATT ONE	5.8	
1,1-Dichloroethene	ND ND	5.8	
1 · · ·	ND ND	23	
Methylene Chloride Carbon Disulfide	ND ND	5.8	
MTBE	ND ND	5.8 5.8	
trans-1,2-Dichloroethene	ND		
Vinyl Acetate	ND	58 5.8	
1,1-Dichloroethane	ND		
2-Butanone	ND	12	
cis-1,2-Dichloroethene	ND	5.8	
2,2-Dichloropropane	ND	5.8	
Chloroform	ND	5.8	
Bromochloromethane	ND	5.8	
1,1,1-Trichloroethane	ND	5.8	
1,1-Dichloropropene	ND	5.8	
Carbon Tetrachloride	ND	5.8	
1,2-Dichloroethane	ND	5.8	0.82
Benzene	ND	5.8	
Trichloroethene	ND	5.8	
1,2-Dichloropropane	ND	5.8	
Bromodichloromethane	ND	5.8	
Dibromomethane	ND	5.8	
4-Methyl-2-Pentanone	ND	12	
cis-1,3-Dichloropropene	ND	5.8	
Toluene	ND	5.8	
trans-1,3-Dichloropropene	ND	5.8	
1,1,2-Trichloroethane	ND	5.8	
2-Hexanone	ND	12	
1,3-Dichloropropane	ND	5.8	
Tetrachloroethene	ND	5.8	
Dibromochloromethane	ND	5.8	
1,2-Dibromoethane	ND	5.8	
Chlorobenzene	ND	5.8	
1,1,1,2-Tetrachloroethane	ND	5.8	
Ethylbenzene	ND	5.8	
m,p-Xylenes	ND ND	5.8	
o-Xylene	ND ND	5.8	
Styrene	ND ND	5.8	
Bromoform	ND ND	5.8	
Isopropylbenzene	ND ND	5.8	
1,1,2,2-Tetrachloroethane	ND ND	5.8	
1 2 2 Trighleronens		5.8	
1,2,3-Trichloropropane	ND	5.8	

b= See narrative ND= Not Detected

RL= Reporting Limit
>LR= Response exceeds instrument's linear range
MDL= Method Detection Limit

Page 1 of 2



Purgeable Organics by GC/MS					
Lab #:	221947	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	EPA 5035		
Project#:	Y8359-07	Analysis:	EPA 8260B		
Field ID:	B-02;5.0-5.5	Diln Fac:	1.031		
Lab ID:	221947-005	Batch#:	166151		
Matrix:	Soil	Sampled:	08/18/10		
Units:	ug/Kg	Received:	08/19/10		
Basis:	dry	Analyzed:	08/20/10		

Analyte	Result	RL	MDL
Propylbenzene	ND	5.8	
Bromobenzene	ND	5.8	
1,3,5-Trimethylbenzene	ND	5.8	
2-Chlorotoluene	ND	5.8	
4-Chlorotoluene	ND	5.8	
tert-Butylbenzene	ND	5.8	
1,2,4-Trimethylbenzene	ND	5.8	
sec-Butylbenzene	ND	5.8	
para-Isopropyl Toluene	ND	5.8	
1,3-Dichlorobenzene	ND	5.8	
1,4-Dichlorobenzene	ND	5.8	
n-Butylbenzene	ND	5.8	
1,2-Dichlorobenzene	ND	5.8	
1,2-Dibromo-3-Chloropropane	ND	5.8	
1,2,4-Trichlorobenzene	ND	5.8	
Hexachlorobutadiene	ND	5.8	
Naphthalene	ND	5.8	
1,2,3-Trichlorobenzene	ND	5.8	

Surrogate	%REC	Limits	
Dibromofluoromethane	101	78-122	
1,2-Dichloroethane-d4	111	68-152	
Toluene-d8	97	80-120	
Bromofluorobenzene	100	76-132	

Page 2 of 2

b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range
MDL= Method Detection Limit



	Purgeable C	organics by GC/	MS
Lab #:	221947	Location:	5844 Bancroft Ave
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y8359-07	Analysis:	EPA 8260B
Field ID:	B-02;14-14.5	Diln Fac:	0.8666
Lab ID:	221947-006	Batch#:	166180
Matrix:	Soil	Sampled:	08/18/10
Units:	ug/Kg	Received:	08/19/10
Basis:	dry	Analyzed:	08/22/10

Moisture: 17%

Analyte	Result	RL	MDL
Freon 12	ND	10	
Chloromethane	ND	10	
Vinyl Chloride	ND	10	
Bromomethane	ND	10	
Chloroethane	ND	10	
Trichlorofluoromethane	ND	5.2	
Acetone	38	21	
Freon 113	ND	5.2	
1,1-Dichloroethene	ND ND	5.2	
	ND ND	21	
Methylene Chloride		5.2	
Carbon Disulfide	ND ND		
MTBE	ND	5.2	
trans-1,2-Dichloroethene	ND	5.2	
Vinyl Acetate	ND	52	
1,1-Dichloroethane	ND	5.2	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	5.2	
2,2-Dichloropropane	ND	5.2	
Chloroform	ND	5.2	
Bromochloromethane	ND	5.2	
1,1,1-Trichloroethane	ND	5.2	
1,1-Dichloropropene	ND	5.2	
Carbon Tetrachloride	ND	5.2	
1,2-Dichloroethane	ND	5.2	0.74
Benzene	ND	5.2	
Trichloroethene	ND	5.2	
1,2-Dichloropropane	ND	5.2	
Bromodichloromethane	ND	5.2	
Dibromomethane	ND	5.2	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	5.2	
Toluene	ND	5.2	
trans-1,3-Dichloropropene	ND	5.2	
1,1,2-Trichloroethane	ND	5.2	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	5.2	
Tetrachloroethene	ND	5.2	
Dibromochloromethane	ND ND	5.2	
1,2-Dibromoethane	ND ND	5.2	
Chlorobenzene	ND ND	5.2	
1,1,1,2-Tetrachloroethane	ND ND	5.2 5.2	
Ethylbenzene	ND		
m,p-Xylenes	ND ND	5.2 5.2	
o-Xylene	ND ND	5.2 5.2	
Styrene	ND ND	5.4	
Bromoform	ND	5.2	
Isopropylbenzene	ND	5.2	
1,1,2,2-Tetrachloroethane	ND	5.2	
1,2,3-Trichloropropane	ND	5.2	
Propylbenzene	ND	5.2	
Bromobenzene	ND	5.2	

ND= Not Detected RL= Reporting Limit MDL= Method Detection Limit Page 1 of 2



	Purgeable C	organics by GC/	MS
Lab #:	221947	Location:	5844 Bancroft Ave
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y8359-07	Analysis:	EPA 8260B
Field ID:	B-02;14-14.5	Diln Fac:	0.8666
Lab ID:	221947-006	Batch#:	166180
Matrix:	Soil	Sampled:	08/18/10
Units:	ug/Kg	Received:	08/19/10
Basis:	dry	Analyzed:	08/22/10

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	5.2	
2-Chlorotoluene	ND	5.2	
4-Chlorotoluene	ND	5.2	
tert-Butylbenzene	ND	5.2	
1,2,4-Trimethylbenzene	ND	5.2	
sec-Butylbenzene	ND	5.2	
para-Isopropyl Toluene	ND	5.2	
1,3-Dichlorobenzene	ND	5.2	
1,4-Dichlorobenzene	ND	5.2	
n-Butylbenzene	ND	5.2	
1,2-Dichlorobenzene	ND	5.2	
1,2-Dibromo-3-Chloropropane	ND	5.2	
1,2,4-Trichlorobenzene	ND	5.2	
Hexachlorobutadiene	ND	5.2	
Naphthalene	ND	5.2	
1,2,3-Trichlorobenzene	ND	5.2	

Surrogate %	REC	Limits	
Dibromofluoromethane 88	}	78-122	
1,2-Dichloroethane-d4 10	0 (68-152	
Toluene-d8 93	}	80-120	
Bromofluorobenzene 86	5	76-132	



Purgeable Organics by GC/MS					
Lab #:	221947	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	EPA 5035		
Project#:	Y8359-07	Analysis:	EPA 8260B		
Field ID:	B-03;14.0-14.5	Diln Fac:	0.8347		
Lab ID:	221947-007	Batch#:	166180		
Matrix:	Soil	Sampled:	08/18/10		
Units:	ug/Kg	Received:	08/19/10		
Basis:	dry	Analyzed:	08/22/10		

12% Moisture:

Free	Analyte	Result	RL	MDL
Chloromethane				
Vinyl Chloride			9 5	
Bromomethane			9 5	
Chloroethane			9.5	
Trichlorofluoromethane			9.5	
Acetone				
Freen 113				
1.1-Dichlorosthene				
Methylene Chloride				
Carbon Disulfide				
MTBE				
Trans-1, 2-Dichloroethene				
Vinyl Acetate	1			
1,1-bichloroethane				
2-Butanone	- .			
Cis-1,2-Dichloroptopane				
2,2-pichloropropane				
Chloroform	cis-1,2-Dichloroethene			
Bromochloromethane				
1.1.1-Trichloroethane				
1,1-Dichloropropene				
Carbon Tetrachloride ND 4.7 1,2-Dichloroethane ND 4.7 Benzene ND 4.7 Trichloroethene ND 4.7 1,2-Dichloropropane ND 4.7 Bromodichloromethane ND 4.7 Dibromomethane ND 4.7 4-Methyl-2-Pentanone ND 9.5 cis-1,3-Dichloropropene ND 4.7 Toluene ND 4.7 trans-1,3-Dichloropropene ND 4.7 1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 4.7 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 Styrene ND 4.7 Bromoform ND				
1,2-Dichloroethane				
Benzene				
Trichloroethene	1,2-Dichloroethane	ND		0.67
1,2-Dichloropropane		ND		
Bromodichloromethane	Trichloroethene	ND		
Dibromomethane ND 4.7 4-Methyl-2-Pentanone ND 9.5 cis-1,3-Dichloropropene ND 4.7 Toluene ND 4.7 trans-1,3-Dichloropropene ND 4.7 1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 9.5 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,2,3-Trichloropropane ND 4.7 1,2,3-Trichloropropane ND 4.7 1,2,3-Trichloropropane	1,2-Dichloropropane	ND	4.7	
4-Methyl-2-Pentanone ND 9.5 cis-1,3-Dichloropropene ND 4.7 Toluene ND 4.7 trans-1,3-Dichloropropene ND 4.7 1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 9.5 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 Chlorobenzene ND 4.7 1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7 ND 4.7 Propylbenzene ND 4.7 ND 4.7	Bromodichloromethane	ND	4.7	
cis-1,3-Dichloropropene ND 4.7 Toluene ND 4.7 trans-1,3-Dichloropropene ND 4.7 1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 4.7 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	Dibromomethane	ND		
Toluene	4-Methyl-2-Pentanone	ND	9.5	
Toluene	cis-1,3-Dichloropropene	ND	4.7	
1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 9.5 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7 Propylbenzene ND 4.7 Propylbenzene ND 4.7 A.7 4.7 Propylbenzene ND 4.7 A.7 4.7 A.7 4.7 A.7 4.7 A.7 4.7 <tr< td=""><td></td><td>ND</td><td>4.7</td><td></td></tr<>		ND	4.7	
1,1,2-Trichloroethane ND 4.7 2-Hexanone ND 9.5 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	trans-1,3-Dichloropropene	ND	4.7	
2-Hexanone ND 9.5 1,3-Dichloropropane ND 4.7 Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	1,1,2-Trichloroethane	ND	4.7	
Tetrachloroethene ND 4.7 Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 Isopropylbenzene ND 4.7 Isopropylbenzene ND 4.7 Isopropylbenzene ND 4.7 Incompage ND 4.7	2-Hexanone	ND	9.5	
Dibromochloromethane ND 4.7 1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	1,3-Dichloropropane	ND	4.7	
1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7		ND	4.7	
1,2-Dibromoethane ND 4.7 Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	Dibromochloromethane	ND	4.7	
Chlorobenzene ND 4.7 1,1,1,2-Tetrachloroethane ND 4.7 Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7		ND	4.7	
Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7		ND	4.7	
Ethylbenzene ND 4.7 m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	1,1,1,2-Tetrachloroethane	ND	4.7	
m,p-Xylenes ND 4.7 o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7		ND	4.7	
o-Xylene ND 4.7 Styrene ND 4.7 Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	m,p-Xvlenes	ND	4.7	
StyreneND4.7BromoformND4.7IsopropylbenzeneND4.71,1,2,2-TetrachloroethaneND4.71,2,3-TrichloropropaneND4.7PropylbenzeneND4.7				
Bromoform ND 4.7 Isopropylbenzene ND 4.7 1,1,2,2-Tetrachloroethane ND 4.7 1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7				
IsopropylbenzeneND4.71,1,2,2-TetrachloroethaneND4.71,2,3-TrichloropropaneND4.7PropylbenzeneND4.7				
1,1,2,2-TetrachloroethaneND4.71,2,3-TrichloropropaneND4.7PropylbenzeneND4.7				
1,2,3-Trichloropropane ND 4.7 Propylbenzene ND 4.7	1.1.2.2-Tetrachloroethane			
Propylbenzene ND 4.7				
1				
	Bromobenzene	ND	4.7	

ND= Not Detected RL= Reporting Limit MDL= Method Detection Limit Page 1 of 2



	Purgeable Or	ganics by GC/MS	3
Lab #:	221947	Location:	5844 Bancroft Ave
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y8359-07	Analysis:	EPA 8260B
Field ID:	B-03;14.0-14.5	Diln Fac:	0.8347
Lab ID:	221947-007	Batch#:	166180
Matrix:	Soil	Sampled:	08/18/10
Units:	ug/Kg	Received:	08/19/10
Basis:	dry	Analyzed:	08/22/10

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	4.7	
2-Chlorotoluene	ND	4.7	
4-Chlorotoluene	ND	4.7	
tert-Butylbenzene	ND	4.7	
1,2,4-Trimethylbenzene	ND	4.7	
sec-Butylbenzene	ND	4.7	
para-Isopropyl Toluene	ND	4.7	
1,3-Dichlorobenzene	ND	4.7	
1,4-Dichlorobenzene	ND	4.7	
n-Butylbenzene	ND	4.7	
1,2-Dichlorobenzene	ND	4.7	
1,2-Dibromo-3-Chloropropane	ND	4.7	
1,2,4-Trichlorobenzene	ND	4.7	
Hexachlorobutadiene	ND	4.7	
Naphthalene	ND	4.7	
1,2,3-Trichlorobenzene	ND	4.7	

Surrogate	%REC	Limits	
Dibromofluoromethane	87	78-122	
1,2-Dichloroethane-d4	98	68-152	
Toluene-d8	92	80-120	
Bromofluorobenzene	87	76-132	



	Purgeable (Organics by GC/	/MS
Lab #:	221947	Location:	5844 Bancroft Ave
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y8359-07	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	166151
Units:	ug/Kg	Analyzed:	08/20/10
Diln Fac:	1.000		

Lab ID: QC557046 Type: BS

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	21.92	88	72-134
Benzene	25.00	26.31	105	80-125
Trichloroethene	25.00	25.41	102	79-128
Toluene	25.00	27.17	109	80-128
Chlorobenzene	25.00	26.33	105	80-120

Surrogate	%REC	Limits	
Dibromofluoromethane	99	78-122	
1,2-Dichloroethane-d4	101	68-152	
Toluene-d8	100	80-120	
Bromofluorobenzene	100	76-132	

Type: BSD Lab ID: QC557047

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	26.91	108	72-134	20	20
Benzene	25.00	26.03	104	80-125	1	20
Trichloroethene	25.00	23.76	95	79-128	7	20
Toluene	25.00	26.82	107	80-128	1	20
Chlorobenzene	25.00	27.40	110	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	78-122
1,2-Dichloroethane-d4	98	68-152
Toluene-d8	101	80-120
Bromofluorobenzene	99	76-132



Baccii ge ner		Organics by GC/	MS	
Lab #: Client: Project#:	221947 Baseline Environmental Y8359-07	Location: Prep: Analysis:	5844 Bancroft Ave EPA 5035 EPA 8260B	
Type: Lab ID: Matrix: Units:	BLANK QC557048 Soil ug/Kg	Diln Fac: Batch#: Analyzed:	1.000 166151 08/20/10	

Analyte	Result	RL	MDL
Freon 12	ND	10	
Chloromethane	ND	10	
Vinyl Chloride	ND	10	
Bromomethane	ND	10	
Chloroethane	ND	10	
Trichlorofluoromethane	ND	5.0	
Acetone	ND	20	
Freon 113	ND	5.0	
1,1-Dichloroethene	ND	5.0	
Methylene Chloride	ND	20	
Carbon Disulfide	ND	5.0	
MTBE	ND	5.0	
trans-1,2-Dichloroethene	ND	5.0	
Vinyl Acetate	ND	50	
1,1-Dichloroethane	ND	5.0	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	5.0	
2,2-Dichloropropane	ND	5.0	
Chloroform	ND	5.0	
Bromochloromethane	ND	5.0	
1,1,1-Trichloroethane	ND	5.0	
1,1-Dichloropropene	ND	5.0	
Carbon Tetrachloride	ND	5.0	
1,2-Dichloroethane	ND	5.0	0.71
Benzene	ND ND	5.0	0.71
Trichloroethene	ND	5.0	
1,2-Dichloropropane	ND	5.0	
Bromodichloromethane	ND	5.0	
Dibromomethane	ND	5.0	
	ND	10	
4-Methyl-2-Pentanone	ND	5.0	
cis-1,3-Dichloropropene Toluene	ND	5.0	
_	ND	5.0	
trans-1,3-Dichloropropene		5.0	
1,1,2-Trichloroethane 2-Hexanone	ND	10	
	ND ND	5.0	
1,3-Dichloropropane Tetrachloroethene	ND	5.0	
Dibromochloromethane		5.0	
	ND	5.0	
1,2-Dibromoethane	ND		
Chlorobenzene	ND	5.0	
1,1,1,2-Tetrachloroethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	
Styrene	ND	5.0	
Bromoform	ND	5.0	
Isopropylbenzene	ND	5.0	
1,1,2,2-Tetrachloroethane	ND	5.0	
1,2,3-Trichloropropane	ND	5.0	
Propylbenzene	ND	5.0	
Bromobenzene	ND	5.0	
1,3,5-Trimethylbenzene	ND	5.0	
2-Chlorotoluene	ND	5.0	

ND= Not Detected RL= Reporting Limit MDL= Method Detection Limit

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	Purgeable Organics by GC/MS					
Lab #: Client: Project#:	221947 Baseline Environmental Y8359-07	Location: Prep: Analysis:	5844 Bancroft Ave EPA 5035 EPA 8260B			
Type: Lab ID: Matrix: Units:	BLANK QC557048 Soil ug/Kg	Diln Fac: Batch#: Analyzed:	1.000 166151 08/20/10			

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	5.0	
tert-Butylbenzene	ND	5.0	
1,2,4-Trimethylbenzene	ND	5.0	
sec-Butylbenzene	ND	5.0	
para-Isopropyl Toluene	ND	5.0	
1,3-Dichlorobenzene	ND	5.0	
1,4-Dichlorobenzene	ND	5.0	
n-Butylbenzene	ND	5.0	
1,2-Dichlorobenzene	ND	5.0	
1,2-Dibromo-3-Chloropropane	ND	5.0	
1,2,4-Trichlorobenzene	ND	5.0	
Hexachlorobutadiene	ND	5.0	
Naphthalene	ND	5.0	
1,2,3-Trichlorobenzene	ND	5.0	

Surrogate %	REC	Limits
Dibromofluoromethane 95	5	78-122
1,2-Dichloroethane-d4 10)1	68-152
Toluene-d8 98	3	80-120
Bromofluorobenzene 10	0 (76-132

ND= Not Detected RL= Reporting Limit MDL= Method Detection Limit



Batter ge ner		Organics by GC/	MS	
Lab #: Client: Project#:	221947 Baseline Environmental Y8359-07	Location: Prep: Analysis:	5844 Bancroft Ave EPA 5035 EPA 8260B	
Type: Lab ID: Matrix: Units:	BLANK QC557157 Soil ug/Kg	Diln Fac: Batch#: Analyzed:	1.000 166180 08/22/10	

Analyte	Result	RL	MDL
Freon 12	ND	10	
Chloromethane	ND	10	
Vinyl Chloride	ND	10	
Bromomethane	ND	10	
Chloroethane	ND	10	
Trichlorofluoromethane	ND	5.0	
Acetone	ND	20	
Freon 113	ND	5.0	
1,1-Dichloroethene	ND	5.0	
Methylene Chloride	ND	20	
Carbon Disulfide	ND	5.0	
MTBE	ND	5.0	
trans-1,2-Dichloroethene	ND	5.0	
Vinyl Acetate	ND	50	
1,1-Dichloroethane	ND	5.0	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	5.0	
2,2-Dichloropropane	ND	5.0	
Chloroform	ND	5.0	
Bromochloromethane	ND	5.0	
1,1,1-Trichloroethane	ND	5.0	
1,1-Dichloropropene	ND	5.0	
Carbon Tetrachloride	ND	5.0	
1,2-Dichloroethane	ND	5.0	0.71
Benzene	ND ND	5.0	0.71
Trichloroethene	ND	5.0	
1,2-Dichloropropane	ND	5.0	
Bromodichloromethane	ND	5.0	
Dibromomethane	ND	5.0	
	ND	10	
4-Methyl-2-Pentanone	ND	5.0	
cis-1,3-Dichloropropene Toluene	ND	5.0	
_	ND	5.0	
trans-1,3-Dichloropropene		5.0	
1,1,2-Trichloroethane 2-Hexanone	ND	10	
	ND ND	5.0	
1,3-Dichloropropane Tetrachloroethene	ND	5.0	
Dibromochloromethane		5.0	
	ND	5.0	
1,2-Dibromoethane	ND		
Chlorobenzene	ND	5.0	
1,1,1,2-Tetrachloroethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	
Styrene	ND	5.0	
Bromoform	ND	5.0	
Isopropylbenzene	ND	5.0	
1,1,2,2-Tetrachloroethane	ND	5.0	
1,2,3-Trichloropropane	ND	5.0	
Propylbenzene	ND	5.0	
Bromobenzene	ND	5.0	
1,3,5-Trimethylbenzene	ND	5.0	
2-Chlorotoluene	ND	5.0	

ND= Not Detected RL= Reporting Limit MDL= Method Detection Limit

Page 1 of 2



	Purgeable C	rganics by GC/	MS	
Lab #: Client: Project#:	221947 Baseline Environmental Y8359-07	Location: Prep: Analysis:	5844 Bancroft Ave EPA 5035 EPA 8260B	
Type: Lab ID: Matrix: Units:	BLANK QC557157 Soil ug/Kg	Diln Fac: Batch#: Analyzed:	1.000 166180 08/22/10	

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	5.0	
tert-Butylbenzene	ND	5.0	
1,2,4-Trimethylbenzene	ND	5.0	
sec-Butylbenzene	ND	5.0	
para-Isopropyl Toluene	ND	5.0	
1,3-Dichlorobenzene	ND	5.0	
1,4-Dichlorobenzene	ND	5.0	
n-Butylbenzene	ND	5.0	
1,2-Dichlorobenzene	ND	5.0	
1,2-Dibromo-3-Chloropropane	ND	5.0	
1,2,4-Trichlorobenzene	ND	5.0	
Hexachlorobutadiene	ND	5.0	
Naphthalene	ND	5.0	
1,2,3-Trichlorobenzene	ND	5.0	

Surrogate	%REC	Limits
Dibromofluoromethane	87	78-122
1,2-Dichloroethane-d4	91	68-152
Toluene-d8	95	80-120
Bromofluorobenzene	87	76-132

ND= Not Detected RL= Reporting Limit MDL= Method Detection Limit



Purgeable Organics by GC/MS				
Lab #:	221947	Location:	5844 Bancroft Ave	
Client:	Baseline Environmental	Prep:	EPA 5035	
Project#:	Y8359-07	Analysis:	EPA 8260B	
Matrix:	Soil	Batch#:	166180	
Units:	ug/Kg	Analyzed:	08/22/10	
Diln Fac:	1.000			

Type: BS Lab ID: QC557158

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.15	105	72-134
Benzene	25.00	26.76	107	80-125
Trichloroethene	25.00	27.04	108	79-128
Toluene	25.00	26.75	107	80-128
Chlorobenzene	25.00	27.32	109	80-120

Surrogate	%REC	Limits	
Dibromofluoromethane	88	78-122	
1,2-Dichloroethane-d4	93	68-152	
Toluene-d8	93	80-120	
Bromofluorobenzene	87	76-132	

Type: BSD Lab ID: QC557159

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	27.08	108	72-134	3	20
Benzene	25.00	26.11	104	80-125	2	20
Trichloroethene	25.00	26.94	108	79-128	0	20
Toluene	25.00	26.48	106	80-128	1	20
Chlorobenzene	25.00	26.80	107	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	86	78-122
1,2-Dichloroethane-d4	89	68-152
Toluene-d8	93	80-120
Bromofluorobenzene	88	76-132



	California	a Title 22 Meta	als	
Lab #:	221947	Project#:	Y8359-07	
Client:	Baseline Environmental	Location:	5844 Bancroft Ave	
Field ID:	DRUM	Basis:	dry	
Lab ID:	221947-009	Diln Fac:	1.000	
Matrix:	Soil	Sampled:	08/18/10	
Units:	mg/Kg	Received:	08/19/10	

Moisture: 16%

Analyte	Result	RL	Batch# Prepared	Analyzed Prep	Analysis
Antimony	ND	0.60	166215 08/23/10	08/25/10 EPA 3050B	EPA 6010B
Arsenic	2.9	0.30	166215 08/23/10	08/24/10 EPA 3050B	EPA 6010B
Barium	160	0.30	166215 08/23/10	08/24/10 EPA 3050B	EPA 6010B
Beryllium	0.43	0.12	166215 08/23/10	08/24/10 EPA 3050B	EPA 6010B
Cadmium	ND	0.30	166215 08/23/10	08/24/10 EPA 3050B	EPA 6010B
Chromium	57	0.30	166215 08/23/10	08/25/10 EPA 3050B	EPA 6010B
Cobalt	20	0.30	166215 08/23/10	08/25/10 EPA 3050B	EPA 6010B
Copper	45	0.30	166215 08/23/10	08/25/10 EPA 3050B	EPA 6010B
Lead	5.6	0.30	166215 08/23/10	08/25/10 EPA 3050B	EPA 6010B
Mercury	0.090	0.025	166228 08/24/10	08/24/10 METHOD	EPA 7471A
Molybdenum	0.77	0.30	166215 08/23/10	08/25/10 EPA 3050B	EPA 6010B
Nickel	80	0.30	166215 08/23/10	08/25/10 EPA 3050B	EPA 6010B
Selenium	ND	0.60	166215 08/23/10	08/25/10 EPA 3050B	EPA 6010B
Silver	ND	0.30	166215 08/23/10	08/25/10 EPA 3050B	EPA 6010B
Thallium	ND	0.60	166215 08/23/10	08/25/10 EPA 3050B	EPA 6010B
Vanadium	72	0.30	166215 08/23/10	08/25/10 EPA 3050B	EPA 6010B
Zinc	51	1.2	166215 08/23/10	08/24/10 EPA 3050B	EPA 6010B

ND= Not Detected RL= Reporting Limit

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California Title 22 Metals				
Lab #:	221947	Location:	5844 Bancroft Ave	
Client:	Baseline Environmental	Prep:	EPA 3050B	
Project#:	Y8359-07	Analysis:	EPA 6010B	
Type:	BLANK	Diln Fac:	1.000	
Lab ID:	QC557335	Batch#:	166215	
Matrix:	Soil	Prepared:	08/23/10	
Units:	mg/Kg	Analyzed:	08/24/10	

Analyte	Result	RL	
Antimony	ND	0.50	
Arsenic	ND	0.25	
Barium	ND	0.25	
Beryllium	ND	0.10	
Cadmium	ND	0.25	
Chromium	ND	0.25	
Cobalt	ND	0.25	
Copper	ND	0.25	
Lead	ND	0.25	
Molybdenum	ND	0.25	
Nickel	ND	0.25	
Selenium	ND	0.50	
Silver	ND	0.25	
Thallium	ND	0.50	
Vanadium	ND	0.25	
Zinc	ND	1.0	

ND= Not Detected RL= Reporting Limit

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	California	Title 22 Metals	3
Lab #:	221947	Location:	5844 Bancroft Ave
Client:	Baseline Environmental	Prep:	EPA 3050B
Project#:	Y8359-07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	166215
Units:	mg/Kg	Prepared:	08/23/10
Diln Fac:	1.000	Analyzed:	08/24/10

Type: BS Lab ID: QC557336

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	102.3	102	80-120
Arsenic	50.00	53.64	107	80-120
Barium	100.0	99.53	100	80-120
Beryllium	2.500	2.699	108	80-120
Cadmium	10.00	10.06	101	80-120
Chromium	100.0	98.61	99	80-120
Cobalt	25.00	24.38	98	80-120
Copper	12.50	12.32	99	80-120
Lead	100.0	96.64	97	80-120
Molybdenum	20.00	20.15	101	80-120
Nickel	25.00	24.06	96	80-120
Selenium	50.00	49.28	99	80-120
Silver	10.00	9.513	95	80-120
Thallium	50.00	49.81	100	80-120
Vanadium	25.00	24.88	100	80-120
Zinc	25.00	25.08	100	80-120

Type: BSD Lab ID: QC557337

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	102.9	103	80-120	1	20
Arsenic	50.00	53.54	107	80-120	0	20
Barium	100.0	100.3	100	80-120	1	20
Beryllium	2.500	2.725	109	80-120	1	20
Cadmium	10.00	10.05	101	80-120	0	20
Chromium	100.0	99.39	99	80-120	1	20
Cobalt	25.00	24.33	97	80-120	0	20
Copper	12.50	12.49	100	80-120	1	20
Lead	100.0	96.89	97	80-120	0	25
Molybdenum	20.00	20.26	101	80-120	1	20
Nickel	25.00	24.09	96	80-120	0	20
Selenium	50.00	49.54	99	80-120	1	20
Silver	10.00	9.587	96	80-120	1	20
Thallium	50.00	49.82	100	80-120	0	21
Vanadium	25.00	25.06	100	80-120	1	20
Zinc	25.00	25.27	101	80-120	1	20



	California :	Title 22 Metals	
Lab #:	221947	Location:	5844 Bancroft Ave
Client:	Baseline Environmental	Prep:	EPA 3050B
Project#:	Y8359-07	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZ	Batch#:	166215
MSS Lab ID:	221996-001	Sampled:	08/20/10
Matrix:	Soil	Received:	08/20/10
Units:	mq/Kq	Prepared:	08/23/10
Basis: Diln Fac:	as received 1.000	Analyzed:	08/24/10

Type: MS Lab ID: QC557338

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.1359	96.15	48.42	50	7-120
Arsenic	4.199	48.08	54.77	105	65-120
Barium	124.9	96.15	240.2	120	47-139
Beryllium	0.2204	2.404	2.809	108	68-122
Cadmium	0.02798	9.615	8.870	92	63-120
Chromium	23.78	96.15	118.9	99	54-125
Cobalt	5.040	24.04	27.30	93	50-124
Copper	17.52	12.02	33.32	131	36-154
Lead	3.075	96.15	87.18	87	51-125
Molybdenum	1.307	19.23	19.15	93	62-120
Nickel	20.65	24.04	46.88	109	41-142
Selenium	<0.1452	48.08	47.80	99	63-120
Silver	<0.03624	9.615	9.680	101	65-120
Thallium	1.217	48.08	43.36	88	53-120
Vanadium	36.51	24.04	66.78	126	48-140
Zinc	52.74	24.04	68.24	64	30-154

Type: MSD Lab ID: QC557339

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	96.15	45.98	48	7-120	5	41
Arsenic	48.08	54.53	105	65-120	0	38
Barium	96.15	198.8	77	47-139	19	47
Beryllium	2.404	2.764	106	68-122	2	28
Cadmium	9.615	8.648	90	63-120	3	29
Chromium	96.15	115.2	95	54-125	3	40
Cobalt	24.04	26.35	89	50-124	4	41
Copper	12.02	29.53	100	36-154	12	46
Lead	96.15	85.30	86	51-125	2	52
Molybdenum	19.23	19.05	92	62-120	1	25
Nickel	24.04	42.69	92	41-142	9	44
Selenium	48.08	45.85	95	63-120	4	31
Silver	9.615	9.497	99	65-120	2	29
Thallium	48.08	42.42	86	53-120	2	28
Vanadium	24.04	58.96	93	48-140	12	39
Zinc	24.04	58.80	25 *	30-154	15	50

^{*=} Value outside of QC limits; see narrative RPD= Relative Percent Difference Page 1 of 1



	California	a Title 22 Meta	als	
Lab #:	221947	Location:	5844 Bancroft Ave	
Client:	Baseline Environmental	Prep:	METHOD	
Project#:	Y8359-07	Analysis:	EPA 7471A	
Analyte:	Mercury	Diln Fac:	1.000	
Type:	BLANK	Batch#:	166228	
Lab ID:	QC557395	Prepared:	08/24/10	
Matrix:	Soil	Analyzed:	08/24/10	
Units:	mg/Kg			

Result	RL	
ND	0.020	

ND= Not Detected RL= Reporting Limit

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	California	Title 22 Metal	Ls
Lab #:	221947	Location:	5844 Bancroft Ave
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y8359-07	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	166228
Matrix:	Soil	Prepared:	08/24/10
Units:	mg/Kg	Analyzed:	08/24/10
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC557396	0.2500	0.2420	97	80-120		
BSD	QC557397	0.2500	0.2440	98	80-120	1	20



	California	a Title 22 Meta	als
Lab #:	221947	Location:	5844 Bancroft Ave
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y8359-07	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	100.0
Field ID:	ZZZZZZZZZZ	Batch#:	166228
MSS Lab ID:	221993-001	Sampled:	08/20/10
Matrix:	Miscell.	Received:	08/20/10
Units:	mg/Kg	Prepared:	08/24/10
Basis:	as received	Analyzed:	08/24/10

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC557398	47.45	0.2717	54.13	NM	70-131		
MSD	QC557399		0.2660	52.98	NM	70-131	2	36





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 222068 ANALYTICAL REPORT

Baseline Environmental 5900 Hollis Street

Emeryville, CA 94608

Project : Y8359-07

Location: 5844 Bancroft Ave

Level : II

<u>Sample ID</u> DRUM <u>Lab ID</u> 222068-001

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

Signature: Deine 7. Tetrett

Project Manager

Date: <u>09/02/2010</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: 222068

Client: Baseline Environmental

Project: Y8359-07

Location: 5844 Bancroft Ave

Request Date: 08/26/10 Samples Received: 08/19/10

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 08/26/10. The sample was received cold and intact.

Metals (EPA 6010B):

No analytical problems were encountered.

390866

CHAIN OF CUSTODY RECORD

BASELINE Environemental Consulting

5900 Hollis Street, Suite D

Emeryville, CA 94608

Tel: (510) 420-8686 Fax: (510) 420-1707

Dichlorocthane in soil and Remarks/ Composite TPH-mo in groundwater based on the method Please estimate 1,2 detection limit. Laboratory Curtis & Tompkins BASELINE Contact Person Redgy Ramirez Turn-Around-Time Standard TAT Note: Report soil results in dry weight. redgy@bascline-env.com jim@bascline-env.com Arrival at Laboratory: Email contact: Remarks: 8/24/10 Analyses MET OF Title 22 Metals (EPA 6010B/747A) Date/Time EPA 8260B) SOC TPH-d, mo w' silica gel clean up EPA 8015M) LPH-g (EPA 8015M) Liter Amber Glass to mr voA Container and Preservative Received by: (Signature) Received by: (Signature) Received by: (Signature) eduT starytul Comments: tainless Steel Tube Total No. Media * 8 Willer house 81.80 Co:11 YES 5844 Bancroft Ave 11:20 3:0 45-18-1 8-13-10 5-18-10 01-81-8 5-18-16 9-(B-W 01-31-8 Received at laboratory with intact: 8-18-10 elinquished by: (Signature) Refinquished by: (Signature) Relinquished by: (Signature) No. amplers: (Signature) B-01; 14.0 -14.5 grand B-03; 14.0 -14,5 8-02:14-145 Project Number B-01;5.0-5.5 B-02;1.0-1.5 B-02;5.0-5.5 roject Name: Sample ID Station DRUM 4 B GS B-03

Desiree Tetrault

From:

"Reginald Ramirez" < redgy@baseline-env.com>

To:

<desiree.tetrault@ctberk.com>

Cc:

<jim@baseline-env.com>

Sent:

Thursday, August 26, 2010 9:32 AM

Attach:

WET Cr COC.pdf

Subject:

RE: Y8359-07 - C&T Data (221947)

Desiree,

Please analyze the DRUM sample for soluble chromium by WET on standard TAT. Attached is the revised chain of custody.

Redgy

From: Desiree N. Tetrault [mailto:desiree.tetrault@ctberk.com]

Sent: Thursday, August 26, 2010 8:35 AM

To: redgy@baseline-env.com

Subject: Y8359-07 - C&T Data (221947)

Hi Redgy,

Please find attached the following files:

- PDF Deliverable
- Standard format + MDL EDD (221947_standard-mdl.zip)

You may also access this data at https://labline.ctberk.com/ Email was also sent to: jim@baseline-env.com

C&T sends its e-reports via the Internet as Portable Document Format (PDF) files. Reports in this format, when accompanied by a signed cover page, are considered official reports. No hardcopy reports will be sent either by fax or U.S. Postal Service unless otherwise requested. You may distribute your PDF files electronically or as printed hardcopies, as long as they are distributed in their entirety.

COOLER RECEIPT CHECKLIST



Login # $\frac{221947}{}$ Date Received $\frac{8/19/10}{}$ Number of coolers $\frac{1}{}$					
Login # 221947 Date Received 8/19/10 Number of coolers Project Y 8359-07					
Date Opened 8/19/10 By (print) DANIEL TROUTING (sign) Date Logged in By (print) M. JIV SHVING (sign)					
1. Did cooler come with a shipping slip (airbill, etc)YES NO					
2A. Were custody seals present? \(\supersetting YES \) (circle) on cooler on samples \(\supersetting NO \) How many \(\supersetting Name \) Date \(\supersetting YES \) NO \(\supersetting N/A \) 2B. Were custody seals intact upon arrival? \(\supersetting YES \) NO \(\supersetting N/A \)					
3. Were custody papers dry and intact when received? 4. Were custody papers filled out properly (ink, signed, etc)? 5. Is the project identifiable from custody papers? (If so fill out top of form) 6. Indicate the packing in cooler: (if other, describe)					
Bubble Wrap					
Type of ice used: Wet □ Blue/Gel □ None Temp(°C) 29					
☐ Samples Received on ice & cold without a temperature blank					
☐ Samples received on ice directly from the field. Cooling process had begun					
8. Were Method 5035 sampling containers present? YES NO If YES, what time were they transferred to freezer?					
9. Did all bottles arrive unbroken/unopened? 10. Are samples in the appropriate containers for indicated tests? YES NO					
11. Are sample labels present, in good condition and complete? NO					
12. Do the sample labels agree with custody papers? NO					
12. Do the sample labels agree with custody papers? NO					
12. Do the sample labels agree with custody papers?					
12. Do the sample labels agree with custody papers? 13. Was sufficient amount of sample sent for tests requested? 14. Are the samples appropriately preserved? 15. Are bubbles > 6mm absent in VOA samples? 16. Was the client contacted concerning this sample delivery? YES NO YES NO YES NO YES NO YES NO					
12. Do the sample labels agree with custody papers? 13. Was sufficient amount of sample sent for tests requested? 14. Are the samples appropriately preserved? 15. Are bubbles > 6mm absent in VOA samples? 16. Was the client contacted concerning this sample delivery? YES NO N/A YES NO N/A					
12. Do the sample labels agree with custody papers? 13. Was sufficient amount of sample sent for tests requested? 14. Are the samples appropriately preserved? 15. Are bubbles > 6mm absent in VOA samples? 16. Was the client contacted concerning this sample delivery? If YES, Who was called? By Date:					
12. Do the sample labels agree with custody papers? 13. Was sufficient amount of sample sent for tests requested? 14. Are the samples appropriately preserved? 15. Are bubbles > 6mm absent in VOA samples? 16. Was the client contacted concerning this sample delivery? If YES, Who was called? By Date:					
12. Do the sample labels agree with custody papers? 13. Was sufficient amount of sample sent for tests requested? 14. Are the samples appropriately preserved? 15. Are bubbles > 6mm absent in VOA samples? 16. Was the client contacted concerning this sample delivery? If YES, Who was called? By Date:					
12. Do the sample labels agree with custody papers? 13. Was sufficient amount of sample sent for tests requested? 14. Are the samples appropriately preserved? 15. Are bubbles > 6mm absent in VOA samples? 16. Was the client contacted concerning this sample delivery? If YES, Who was called? By Date:					

SOP Volume:

Client Services

Section:

1.1.2

Page: 1 of 1

Rev. 6 Number 1 of 3

Effective: 23 July 2008 Z:\qc\forms\checklists\Cooler Receipt Checklist_rv6.doc



	Chromium				
Lab #:	222068	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	WET		
Project#:	Y8359-07	Analysis:	EPA 6010B		
Analyte:	Chromium	Batch#:	166465		
Field ID:	DRUM	Sampled:	08/18/10		
Matrix:	WET Leachate	Received:	08/19/10		
Units:	ug/L	Prepared:	09/01/10		
Diln Fac:	10.00	Analyzed:	09/01/10		

Type	Lab ID	Result	RL
SAMPLE	222068-001	ND	250
BLANK	QC558323	ND	250

ND= Not Detected RL= Reporting Limit

Page 1 of 1



Chromium					
Lab #:	222068	Location:	5844 Bancroft Ave		
Client:	Baseline Environmental	Prep:	WET		
Project#:	Y8359-07	Analysis:	EPA 6010B		
Analyte:	Chromium	Batch#:	166465		
Field ID:	ZZZZZZZZZ	Sampled:	07/22/10		
MSS Lab ID:	222101-001	Received:	07/22/10		
Matrix:	WET Leachate	Prepared:	09/01/10		
Units:	ug/L	Analyzed:	09/01/10		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC558324		2,000	1,803	90	80-120			1.000
BSD	QC558325		2,000	1,826	91	80-120	1	20	1.000
MS	QC558326	1,026	10,000	10,360	93	75-120			10.00
MSD	QC558327		10,000	10,420	94	75-120	1	20	10.00

APPENDIX E NON-HAZARDOUS WASTE MANIFEST

	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	2. P	age 1 f	3. Docume	nt Number		
	4. Generator's Name and Mailing Address City of Oakland 250 Frank H Ogawa Plaza Oakland, CA 510-238-7371			Seminary Ave Oakland, CA				
	Generator's Phone				Dhana			
	5. Transporter Company Name	6. US EPA ID Nu	Jmber 7. 1	7. Transporter Phone				
	CLEARWATER ENVIRONMENTAL CAR000007013			(510) 476-1740				
G	8. Designated Facility Name and Site Address	9. US EPA ID Nu	imber , 10.	Facility's P	rnone			
E N	11. Waste Shipping Name and Description			12. Co	ontainers Type	13. Total Quantity	14. Unit Wt/Vol	
E R A T O	Non-Hazardous waste			01	Din	20	6	
R	NONHAZANDOUS	"Salid"		ol	Pm	150	P	
	15. Special Handling Instructions and Additional Inf Wear PPE Emergency Contact (510) 476-1740 Attn: Charles Seaton			11a.		Listed Above 11b		
	16. GENERATOR'S CERTIFICATION: I certify the		ubject to state or federal regu	lations for	reporting prop	er disposal of Haza	irdous Waste.	
T R A N S	Printed/Typed Name ON BEHALFAF	Signature	J 5 3 3			Month J	Day Year	
P	17. Transporter Acknowledgement of Receipt of Ma							
O R T E R	Printed/Typed Name There kere://0	Signature				Mopfin	Day Year	
F A C I L I T Y	18. Discrepancy Indication Space 19. Facility Owner or Operator: Certification of rece	ot of waste materials covered by this manifest	except as noted in Item 1	18.		,	_	
	Printed/Typed Name	Signature						
	Charles Scaton			, p		Month O4	Day Year	

APPENDIX F SITE-SPECIFIC HEALTH AND SAFETY PLAN

SITE HEALTH & SAFETY PLAN

PROJECT/CLIENT INFORMATION					
Project No:	Project Manager:	Site Health and Safety Manager:	Field Activities Date:		
Y8359-07	Reginald Ramirez, P.E.	William Scott, P.G., C.E.G., CHg	August 2010		
Client:	City of Oakland		Site Address:		
Contact Person:	Mark Arniola: (510) 238-	7371	5844 Foothill Blvd., Oakland, California 94605		

PROJECT DESCRIPTION: The City of Oakland is planning to redevelop approximately two acres of land located near Foothill Boulevard and Seminary Avenue (Foothill Boulevard/Seminary Avenue Redevelopment Area) in Oakland, California. The Foothill Boulevard/Seminary Avenue Redevelopment Area consist of 12 individual properties which will be transformed into a mixed-use retail center, with shops at the ground level and residential units above. The site, located at 5844 Bancroft Avenue (site), is one of the properties that make up the Foothill Boulevard/Seminary Avenue Redevelopment Area.

A Phase I Environmental Site Assessment (Phase I) prepared for the site identified 13 sites on databases associated with dry cleaners, auto repair facilities, or gasoline service stations; these 13 sites were located within one-quarter mile upgradient from the site. Based on groundwater flow information, subsurface conditions at the site could be affected if a release of hazardous materials occurred at any of the 13 sites. The Phase I investigation could not confirm or rule out a subsurface release from the 13 hazardous materials sites because the subsurface in the vicinity of the site has not been investigated. Based on the findings of the Phase I, a subsurface investigation at the site was recommended to determine whether soil and/or groundwater beneath the site have been impacted by potential releases of petroleum hydrocarbons and/or volatile organic compounds ("VOCs") from operation of garages and dry cleaners near the site. The subsurface investigation will involve collection of soil and grab groundwater samples for analysis of total petroleum hydrocarbons and VOCs.

All samples will be collected following the health and safety requirements described in this health and safety plan (Plan). All samples will be submitted to Curtis and Tompkins, Ltd. for analyses under chain-of-custody procedures. No confined space entry is included in the scope of work. However, the scope of work includes advancing vertical borings; therefore, a soil boring permit from the Alameda County Public Works Agency is required. Nighttime illumination is not expected to be required as all field activities are expected to be performed during daylight hours. The sampling locations are located in a private property which is not open to the public; therefore, traffic control and other site control measures are not required during sampling. The site is accessible from Bancroft Avenue.

KEY PERSONNEL AND RESPONSIBILITIES: Yane Nordhav, P.G., is the principal-in-charge. Reginald Ramirez, P.E. is the Project Manager. William Scott, P.G., is the Field Team Leader and Site Health and Safety Manager. Reginald Ramirez shall be available by telephone during on-site work and have overall responsibility for preparation, implementation, and modifications to this Plan. The responsibilities of the Site Health and Safety Manager/Project Supervisor include: 1) enforcing this Plan; 2) stopping field operations if personnel safety and health may be jeopardized; 3) requesting site evacuation, if necessary; 4) conducting and evaluating or supervising the collection/evaluation of air monitoring data for the purpose of making decisions regarding the safety of on-site personnel; 5) designating other qualified personnel to work under the direction of the Site Health and Safety Manager, for purpose of implementing this Plan.

TRAINING REQUIREMENTS: All on-site workers, including subcontractors, entering any area of the site with suspected contamination must be 40-hour trained in accordance with the Federal and State OSHA HAZWOPER Standard (including 3 days of supervised field experience and annual refresher training), and must be medically surveilled and have received annual respirator training and fit testing in accordance with this Standard and the requirements of their company's health and safety plan. All visitors entering the site will be informed that suspected contamination may be present in soil, that work is being conducted under the Plan, and that they are responsible for their own health and safety.

A copy of this Plan will be provided at the site and will be reviewed by the site Health and Safety Manager prior to the start of work at the site, as part of a tailgate safety meeting. This Plan applies to all BASELINE employees engaged in hazardous materials activities on-site. This Plan, or an equally protective plan, shall be adopted by the subcontractors as a supplement to their existing health and safety programs. All on-site personnel will be asked to sign a consent form included in this Plan, prior to the beginning of field activities, indicating that they have read the Plan, have participated in the tailgate safety meeting, meet the training requirements, and agree to all Plan conditions. Should other employers elect to adopt this Plan, BASELINE shall be held harmless and indemnified against any claims associated with this Plan. If a separate plan is developed, it must be at least as protective as this Plan, and the subcontractor must designate a site Safety Officer to monitor plan implementation. The subcontractors' site Safety Officer will be subordinate to the designated BASELINE site Health and Safety Manager.

This Plan is intended to act as an extension of BASELINE's in-house Health and Safety Program, including Medical Surveillance Program, Hazard Communication Program, Hearing Conservation Program, Respiratory Protection Program, Personal Protective Equipment Program, Injury and Illness Prevention Program, Emergency Action Plan, and Fire Prevention Plan. BASELINE employees receive initial and annual training in these programs.

CHEMICAL HAZARDS					
Chemical	Description	Health and Safety Standards/Odor Threshold (OT)	Persons Exposed* and Potential Exposure Routes	Symptoms of Acute Exposure	
Petroleum hydrocarbons (gasoline) CAS 8006-61-9	Combustible liquid with a characteristic odor. UEL=7.6% LEL=1.4%	PEL=300 ppm REL= STEL=500 ppm IDLH=	Inhalation, skin absorption, skin or eye contact, ingestion	Irritation eyes, skin, mucous membrane; dermatitis headache, lassitude (weakness, exhaustion), blurred vision, dizziness, slurred speech, confusion, convulsions; chemical pneumonitis (aspiration liquid); possible liver, kidney damage; [potential occupational carcinogen]	
Diesel	Combustible liquid, may contain carcinogenic middle distillates	No PEL	Skin, ingestion	Minor eye/skin irritation	
Motor oil	Combustible liquid, may contain carcinogenic middle distillates	No PEL	Skin, ingestion	Minor eye/skin irritation	
Benzene CAS 71-43-2	Colorless to light-yellow liquid with an aromatic odor. UEL=7.8% LEL=1.2% VP=75 mm Hg	PEL=1 ppm REL=0.1 ppm STEL=5 ppm (OSHA); 1 ppm (NIOSH) IDLH=500 ppm	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude (weakness, exhaustion); dermatitis; bone marrow depression; [potential occupational carcinogen]	
Toluene CAS 108-88-3	Colorless liquid with a sweet, pungent, benzene-like odor. UEL=7.1% LEL=1.1% VP=21 mm Hg	PEL=50 ppm (OSHA) 200 ppm (NIOSH) REL=100 ppm (375 mg/m³) STEL=150 ppm (560 mg/m³) (NIOSH) C=300 ppm; 500 ppm (10-minute maximum) (OSHA) IDLH=500 ppm	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, insomnia; paresthesia; dermatitis; liver, kidney damage	
Ethyl benzene CAS 100-41-4	Colorless liquid with an aromatic odor. UEL=6.7% LEL=0.8% VP=7 mm Hg	PEL=100 ppm (435 mg/m³) REL=100 ppm (435 mg/m³) STEL=125 ppm (545 mg/m³) (NIOSH) IDLH=800 ppm	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma	

Chemical	Description	Health and Safety Standards/Odor Threshold (OT)	Persons Exposed* and Potential Exposure Routes	Symptoms of Acute Exposure
m-Xylenes CAS 108-38-3	Colorless liquid with an aromatic odor. UEL=7.0% (m & p-xylenes) LEL=1.1% (m & p-xylenes) VP=9 mm Hg UEL=6.7% (o-xylenes) LEL=0.9% (o-xylenes) VP=7 mm Hg	PEL=100 ppm (435 mg/m³) REL=100 ppm (435 mg/m³) STEL=150 ppm (655 mg/m³) (NIOSH) IDLH=900 ppm	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; anorexia, nausea, vomiting, abdominal pain; dermatitis
Methyl tert butyl ether CAS 001634-04-4	Methyl tert-butyl ether (MTBE) is a flammable liquid with a distinctive, disagreeable odor. (ATSDR) UEL=NA LEL=NA	EPA drinking water standard=4 mg/L (short- tern exposure); 3 mg/L (long-term exposure) REL=40 ppm (8-hour work day, 40-hour work week) (ACGIH) PEL=40 ppm (OSHA)	Dermal contact, inhalation, and ingestion	Nose or throat irritation, headaches, nausea, dizziness, and mental confusion.
Vinyl Chloride	Colorless gas with a pleasant odor	CALOSHA PEL: 1 ppm STEL: 5 ppm	Inhalation, direct contact, ingestion.	Lassitude, abdominal pain, GI bleeding, enlarged liver, pallor or cyanosis of extremities.
1,2-Dichloroethene (Ethylene dichloride) CAS 107-06-2	Colorless liquid with a pleasant, chloroform odor	CALOSHA PEL: 1 ppm STEL: 2 ppm CPEL: 200 ppm NIOSH REL: 1 ppm STEL: 2 ppm IDLH: 50 ppm	Inhalation, direct contact, ingestion.	Eye irritation; corneal opacity; CNS depression; nausea; vomiting; dermatitis; liver, kidney, and CVS damage.
Trichloroethene	Colorless liquid with a chloroform odor	CALOSHA PEL: 25 ppm STEL: 100 ppm CPEL: 300 ppm NIOSH REL: 25 ppm IDLH: 1000 ppm	Inhalation, direct contact, ingestion.	Eye and skin irritation; headache, visual disturbance; lassitude; dizziness; tremor; drowsiness; nausea; vomiting; dermatitis; cardiac arrhythmias; paresthesia; liver injury.
Tetrachloroethene (Tetrachloroethylene) (Perchloroethylene) CAS 127184	Colorless liquid with a mild, chloroform odor	CALOSHA PEL: 25 ppm STEL: 100 ppm CPEL: 300 ppm NIOSH IDLH: 150 ppm	Inhalation, direct contact, ingestion.	Eye, skin, nose, respiratory system, and throat irritation; dizziness, poor coordination; headache; nausea; drowsiness; flushed face and neck, skin erythema; liver damage.

Notes:

Health and safety standards refer to airborne concentrations to which nearly all workers may be repeatedly exposed daily without harmful effects. The concentrations are time-weighted averages for a normal 8-hour work period.

- IDLH = Immediately dangerous to life and health; a condition that would cause permanent damage or death within 30 minutes.
- PEL = Permissible exposure limit. Time-weighted average concentrations for a normal 8-hour work period for a 40-hour work week.
- REL = Recommended exposure limit. Time-weighted average concentrations for up to a 10-hour day during a 40-hour workweek. RELs are recommended by NIOSH, but are not enforceable by a regulatory agency.
- STEL = Short-term exposure limit. A 15-minute time weighted average exposure that is not to be exceeded at any time during a workday even if the 8-hour time-weighted average is below the PEL; regulated by OSHA.
- TLV = Threshold limit value recommended by American Conference of Government Industrial Hygienists.
- ATSDR = Agency for Toxic Substances and Disease Registry.
- ACGIH = American Conference of Governmental Industrial Hygienists.
- C = ceiling value. An exposure limit that should not be exceeded at any time.
- * BASELINE, drillers, and regulatory agency personnel.

PHYSICAL HAZARDS:

Potential physical hazards at the site include fire and explosion, heavy equipment, heat/cold stress, over and underground utilities, tripping and falling, and noise. Personnel working most directly with the drilling activities will have the greatest chance of encountering these hazards, however all personnel on-site may also encounter them at one time or another.

Employees covered under this plan shall observe the following precautions:

- 1) Watch for slippery or uneven ground;
- 2) All unattended boreholes must be adequately covered or marked with high visibility paint;
- 3) Wear required personal protective equipment (PPE) at all times (see below);
- 4) Prevent strain injuries by using small sampling shipping containers and/or material handling aids;
- 5) Avoid heat/cold stress by taking regular work breaks, liquids intake, and appropriate attire, as needed;
- 6) Watch for traffic and heavy equipment while sampling; and
- 7) Wear traffic safety vests at all times.

PERSONAL PROTECTIVE EQUIPMENT REQUIRED: SOPs shall be implemented to minimize exposure to hazardous materials and physical hazards potentially occurring at the site. However, it is anticipated that SOPs cannot completely prevent exposures to all hazardous materials at the site. Potential hazards include inhalation and dermal contact with contaminated materials during sampling. Ingestion of hazardous materials is assumed to be negligible if personal hygiene measures discussed below are implemented. The following equipment and supplies must be available at all times: hard hats, nitrile gloves, water supply for washing, for decontamination, and for drinking, disposable overalls (non-coated), first-aid kit, noise protection (ear plugs), and fire extinguisher. Rain gear may also be warranted.

Field personnel will not be allowed to wear contact lenses during this work. On-site workers must be trained on at least an annual basis, as provided by their employer, in PPE use, care, and proper use. All PPE must be properly maintained and stored to ensure it is in good working condition at the time of use. All PPE must be inspected prior to and following use (BASELINE's PPE Program is included in BASELINE's Health and Safety Program).

The rationale for selection of the PPE above is based on the known and/or suspected hazardous materials and physical hazards at the site, the anticipated amount of contact with potentially contaminated materials as part of site-specific tasks, and PPE performance characteristics. The need for respiratory protection is not anticipated during this scope of work. The need for respiratory protection shall be based on the results of the air monitoring. If deemed necessary by the designated Site Health and Safety Manager, on-site personnel will be asked to leave the area immediately by the Site Health and Safety Manager and the Manager will notify the BASELINE Project Manager to determine future actions. If PPE is deemed to be ineffective by the Site Health and Safety Manager, the Manager or his/her designee shall take immediate action to mitigate the problem(s).

AIR MONITORING STRATEGY: Air monitoring will be performed by measuring the concentration of organic vapors in the worker breathing space using a Photo-ionization Detector (PID). A sustained measurement of 5 ppm for 5 minutes on the PID will require engineering controls or respirators.

SITE CONTROL MEASURES: Avoid kicking up dust while sampling, and avoid skin and eye contact with soil to the maximum extent possible. Personal hygiene is imperative to prevent prolonged skin contact with site soils and dusts.

In the event of a minor (incidental) release of a hazardous material, the spill will be immediately cleaned up by on-site BASELINE personnel, and spill cleanup materials placed in labeled containers. In the event of a larger than incidental (major) spill of hazardous materials, follow emergency procedures below.

DECONTAMINATION PROCEDURES (PERSONAL AND EQUIPMENT): All personal and equipment decontamination procedures shall be implemented prior to leaving the site. Decontaminate boots, non-disposable PPE, and sampling equipment on-site using a TSP (or Alcanox) solution; rinse with potable water; and finally rinse with DI water (sampling equipment only).

Dispose of disposable PPE and sampling equipment in labeled plastic bags and place in a municipal refuse dumpster. Antiseptic (alcohol) towelettes will be used for cleaning respirators and washing hands and arms. The Site Health and Safety Manager shall monitor decontamination procedures to determine their effectiveness. The Site Health and Safety Manager shall take appropriate action to immediately correct any deficiencies if decontamination procedures are found to be ineffective.

OTHER: Illumination is not expected to be required, as all work will be performed during daylight hours. The location of the nearest restroom will be identified prior to beginning fieldwork.

Drums (labeled or unlabeled) shall not be handled under any circumstances. If drums have to be moved to perform site activities, the site Health and Safety Manager shall consult with the principal-in-charge prior to movement.

If the Site Health and Safety Manager identifies any deficiencies in this Site Health and Safety Plan, they shall be immediately corrected. On-site workers identifying any deficiencies in this Plan shall immediately notify the Site Health and Safety Manager of such deficiencies.

EMERGENCY PROCEDURES: A cellular phone is carried by BASELINE personnel. In the event of a major emergency (e.g., fire, major spill, medical, explosion), the site Health and Safety Manager or his designee shall use the cellular phone to contact "911," Yane Nordhav (510-420-8686), the client (phone number listed above), and other emergency numbers listed below, as applicable. The designated BASELINE site Health and Safety Manager shall verbally request evacuation of site personnel (personnel must first go through decontamination prior to evacuation).

Evacuation shall be requested by repeatedly honking the horn of a vehicle for personnel who are not within voice range. The honking will continue until personnel can be verbally notified of the emergency and the need for evacuation. Personnel shall evacuate the site to the reassembly area. The site Health and Safety Manager will be responsible for notifying personnel and any visitors of an appropriate evacuation route and reassembly area may be made during the daily tailgate safety meeting and should be documented in the field log. An evacuation route and reassembly area are therefore not included in this Plan. Any injured personnel shall be brought to the decontamination area prior to evacuation, and shall be assisted in decontamination, according to the procedures above, unless the transport or decontamination may cause further injury. The designated site Health and Safety Manager shall account for all on-site personnel following evacuation.

Rescue and medical duties (other than first aid/CPR by trained personnel), as required, shall be provided by off-site emergency responders (e.g., paramedics, fire fighters). Injured personnel may only be transported to the Hospital Emergency Room if the injury is non-threatening and does not require immediate attention (e.g., scrapes, minor cuts). (The hospital emergency route is included below.)

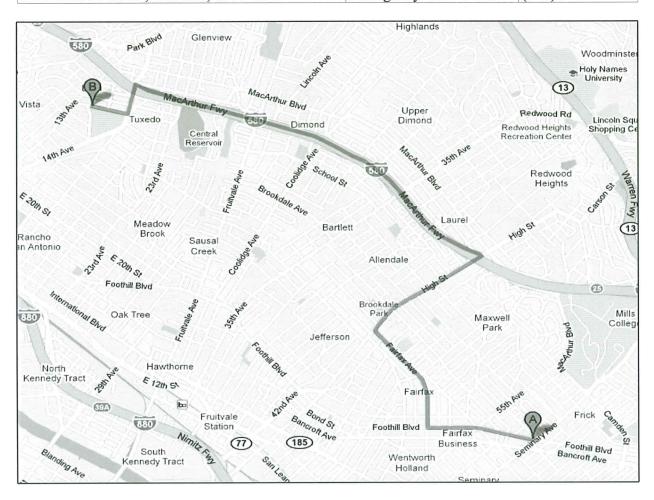
Following evacuation, the designated BASELINE Health and Safety Manager shall request on-site personnel to maintain security of the site (by preventing unauthorized entry) until the site has been released to off-site emergency responders (e.g., fire fighters, police, etc.). Evacuated personnel will direct emergency responders to the emergency and inform them of site hazards and the emergency. Other emergency notifications may be required, for example, the Emergency Management System (911), the Office of Emergency Services (800 852-7550), and the U.S. Environmental Protection Agency, Region IX (415 744-2000). The need for emergency notifications will be determined by the designated BASELINE Health and Safety Manager and project manager, based on the emergency at hand. All notifications will be documented.

Following the emergency, the designated site Health and Safety Officer shall be responsible for preparing a post-incident critique, for the purpose of identifying the cause of the emergency, response initiated, and need for additional training, procedures, or equipment. The designated site Health and Safety Manager and project manager shall take corrective action to prevent reoccurrence of the emergency. At any time, if any

deficiencies in these Emergency Procedures are identified, they shall be immediately corrected by the site Health and Safety Manager. On-site workers identifying any deficiencies in the emergency procedures shall immediately notify the site Health and Safety Manager of such deficiencies. Prepared by: Reginald Ramirez Reviewed/Approved by: Date: 4 February 2010 Date: Read by/Date:

Hospital Route and Map Directions

Highland Hospital	General Information:	(510) 522-3700
1411 East 31 Street, Oakland, CA 94602	Emergency Care Center:	(510) 523-4357



Directions from Site:

1. Head west on Foothill Blvd towar	rd Mason St	0.6 miles	
2. Turn right at Fairfax Ave		0.7 miles	total 1.2 miles
3. Turn right at High St		go 0.7 miles	total 1.9 miles
4. Turn left to merge onto I-580 West		go 1.9 miles	total 3.8 miles
5. Take the exit toward 14th Ave/Pa	ırk Blvd	go 0.2 miles	total 4.1 miles
6. Turn left at Beaumont Ave		go 0.2 miles	total 4.2 miles
7. Turn right at E 31st St	Destination	will be on the left	total 4.4 miles

SITE HEALTH AND SAFETY PLAN – continued

Emergency Contact Phone Numbers

Biller Bolley		
Ambulance		
Public	Paramedics	911
Private	West Med Ambulance Service	(510) 614-1420
	1635 Neptune Drive, San Leandro	
Police Station	n	
455 7th Street, Oakland, CA		911
		(510) 777-3333 (police non emergency)
Fire Station		
Battalion Station #4		911
3344 High Street, Oakland, CA 94619		(510) 444-3322 (dispatch)