SOMA
ENVIRONMENTAL ENGINEERING, INC.
6620 Owens Drive, Suite A • Pleasanton, CA 94588
TEL (925)734-6400 • FAX (925)734-6401

April 30, 2009

Mr. Jerry Wickham
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Fuel Leak Case#RO0458
Site Located at 3820 Manila Avenue, Oakland, California
Former Glovatorium Facility

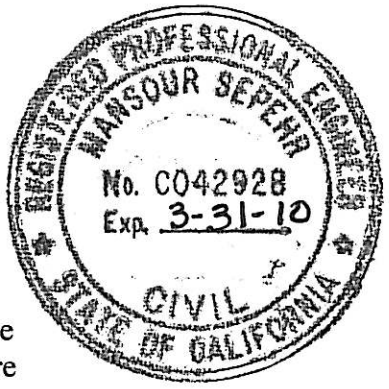
Dear Mr. Wickham:

SOMA's "First Semi-Annual 2009 Groundwater Monitoring and Extended MPE Pilot Test Report" for the subject property has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

Thank you for your time in reviewing our report. Please do not hesitate to call me at (925) 734-6400, if you have any questions or comments.

Sincerely,

Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist



cc: Mr. Albert M. Cohen, LOEB&LOEB LLP w/enclosure
Dr. Bruce Page, Bruce W. Page Consulting w/enclosure
Mr. Peter W. McGaw, ARCHER NORRIS w/enclosure
Ms. Betty Graham, Regional Water Quality Control Board w/o enclosure
Mr. Stuart Depper w/enclosure

First Semi-Annual 2009 Groundwater Monitoring and Extended MPE Pilot Test Report

The Former Glovatorium Facility
3820 Manila Avenue
Oakland, California

April 30, 2009

Project 2511

Prepared for:

Loeb & Loeb LLP
10100 Santa Monica Boulevard, Suite 2200
Los Angeles, California 90067-4164

SOMA ENVIRONMENTAL ENGINEERING, INC.
6620 Owens Drive Suite A Pleasanton CA 94588 Ph: 925.734.6400 F: 925.734-6401 www.somaenv.com

Perjury Statement

Stuart Depper	Responsible Party
Name	Title

3820 Manila Avenue	Oakland	94609
Street Address	City	Zip

I declare under penalty of perjury that the information and/or recommendations contained in the attached document or report were prepared under my direction and to the best of my knowledge true and correct.

Signature

4-30-09

Date

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report for the Law Offices of Loeb & Loeb LLP, to comply with Alameda County Department of Environmental Health requirements for the groundwater monitoring event, and to provide information necessary to defend claims brought against the owners by Earl Thompson and Grace Johnson.

Mansour Sepehr, PhD, PE
Principal Hydrogeologist

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1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report for the Law Offices of Loeb & Loeb LLP on behalf of their client, the owners of the subject property. The property, the former Glovatorium, is located at 3820 Manila Avenue (formerly known as 3815 Broadway), Oakland, California, as illustrated in Figure 1. The site is located in an area of primarily commercial and residential developments.

This report summarizes results of the groundwater monitoring event conducted at the site on February 9 and 10, 2009 and includes laboratory results for the groundwater samples.

In addition to the above laboratory analyses, the natural attenuation study initiated by Levine-Fricke Recon (LFR) in Third Quarter 2000 was continued during this monitoring event. The objective of the study was to evaluate whether perchloroethylene (PCE) and other volatile organic compounds (VOCs) found in the groundwater were biodegrading. Therefore, groundwater samples collected during this monitoring event were analyzed for common electron acceptors and other geochemical indicators. Results of these analyses are presented in this report.

All activities were performed in accordance with general guidelines of the California Regional Water Quality Control Board (CRWQCB) and the Alameda County Environmental Health Services (ACEHS). Appendix A details procedures followed by SOMA during this monitoring event.

This work is intended to determine the nature and extent of environmental contamination and whether contamination is affecting the neighboring Thompson property. This information is pertinent to the claim Mr. Thompson brought against the Deppers, owners of the Glovatorium. Data gathered by this work may also help determine when releases occurred, significant information that is pertinent to the defense against claims brought by Ms. Johnson, a former owner of the property.

1.1 Site Description

The Site is located between Manila Avenue and Broadway, near the intersection of 38th Street in Oakland, California. Surface elevation ranges from approximately 78 to 84 feet above mean sea level.

A 54-inch inside-diameter storm drain culvert passes under the property, from Manila Avenue on the west to 38th Street on the south (see Figure 2). The depth of the storm drain invert is approximately 8.5 feet under the sidewalk on the

eastern side of Manila Avenue and approximately 13.2 feet below ground surface (bgs) at the far end, approximately 60 feet south of well GW-4.

A 10-inch-diameter cast iron sanitary sewer conduit runs westerly from the on-site building and discharges into the sanitary sewer line, which runs north to south along Manila Avenue. Figure 2 shows locations of the storm drain and sanitary sewer system.

Six underground storage tanks (USTs) were formerly on the site. Two were located under the sidewalk on 38th Street and four inside the building. UST capacities have been variously reported as ranging from 800 gallons to 5,000 gallons. They reportedly contained Stoddard solvent, fuel oil and possibly waste oil. In August 1997, the six USTs were abandoned in place by backfilling with either cement-sand slurry or pea gravel. In addition, there are three USTs owned by Earl Thompson, Sr., under the sidewalk on 38th Street (Figure 2).

Surrounding properties are primarily commercial and residential. TOSCO Marketing Company is located north and upgradient of the site, at 40th Street and Broadway, and contains a number of groundwater monitoring wells. Figure 2 shows locations of the subject site's main building, UST areas, and on- and off-site groundwater monitoring wells.

1.2 Background

Geosolv, LLC (Geosolv) initiated the first soil and groundwater investigation in August 1997. Using the direct push method, Geosolv drilled 14 soil borings to the approximate depths of 10 to 24 feet bgs. Seven borings (B-2, B-3, B-7 through B-10 and B-13; Figure 2) were converted to temporary groundwater monitoring wells, where grab groundwater samples were collected. In September 1998, Geosolv conducted further soil and groundwater investigations by drilling 12 additional soil borings to approximate depths of 19 to 25 feet bgs. All 12 borings were converted to temporary groundwater sampling points, labeled E-15 through E-26. After collection of grab groundwater samples from temporary "E" sampling points, these borings were abandoned and grouted. Figure 2 shows soil boring locations.

In July 1999, an investigation of potential groundwater preferential flow paths was initiated by LFR. LFR drilled 10 soil borings (GW-1 through GW-8, GW-5A, and GW-6A) primarily along the 54-inch-diameter storm drain and sanitary sewer systems, to depths ranging from 8 to 20 feet bgs. During drilling, soil samples were collected from various depth intervals. In August 1999, LFR collected grab groundwater samples from seven of the nine "GW" wells. GW-1 to GW-6A are shown in Figure 2.

LFR conducted the first groundwater monitoring events in January, April, October, and November 2000, and installed four groundwater monitoring wells, LFR-1 through LFR-4, in July and August 2000 (Figure 2).

In January 2001, LFR conducted a second groundwater monitoring event that suggested occurrence of strong anaerobic biodegradation activities and dechlorination of PCE beneath the site. On April 26 and 27, 2001, SOMA began its initial groundwater monitoring events. Results of the Second Quarter 2001 monitoring event indicated occurrence of strong dechlorination of PCE in the subsurface.

SOMA's June 2001 workplan recommended replacement of the existing small-diameter monitoring wells; B-7 and B-10, with larger-diameter wells, to better evaluate bioattenuation parameters. On October 4, 11, and 12, 2001, SOMA installed monitoring wells SOMA-1 through SOMA-5 (Figure 2). During installation, boreholes were continuously logged and soil samples collected at 5-foot depth intervals to delineate vertical extent of soil and groundwater contamination.

Phase I of SOMA's workplan included installing additional groundwater monitoring wells, soil and groundwater sampling, hydraulic testing, and a sensitive receptor survey. Phase II of the workplan included defining site regulatory status by conducting groundwater flow, chemical fate and transport modeling, and a risk-based corrective action (RBCA). SOMA's "Report on Conducting Additional Field Investigation to Evaluate the Site's Conceptual Model," dated January 3, 2002, describes results of investigations conducted in Phase I.

The modeling aspect of Phase II used results collected in Phase I and analytical data from quarterly monitoring events. The main objective of groundwater flow and chemical transport modeling was to predict groundwater chemical concentrations downgradient of the site, beneath the nearest residential neighboring property, in order to assess site regulatory status and restore groundwater quality conditions to acceptable levels specified by the RBCA.

Groundwater flow, chemical transport, and bioattenuation modeling for the site was conducted by SOMA in First Quarter 2003. Modeling results confirmed occurrence of biodegradation beneath the site and indicated that bioattenuation processes could remove PCE in the groundwater in approximately 7 to 10 years, trichloroethylene (TCE) in approximately 3 to 9 years, and cis-1,2-dichloroethene (cis-1,2-DCE) in approximately 4 to 13 years. SOMA's March 7, 2003 report titled "Groundwater Flow, Chemical Transport and Bioattenuation Modeling" describes the study in detail.

Based on approval from ACEHS, groundwater monitoring events have been conducted semi-annually since First Quarter 2003.

1.3 Site Geology and Hydrogeology

The site is located on the alluvial plain between the San Francisco Bay shoreline and the Oakland hills. Surface sediments in the site vicinity consist of Holocene alluvial deposits representative of an alluvial fan depositional environment. These deposits consist of brown, medium-dense sand that fines upward to sandy or silty clay. The pattern of stream channel deposition results in a three-dimensional network of coarse-grained sediments interspersed with finer-grained silts and clays. The individual units tend to be discontinuous lenses aligned parallel to the axis of the former stream flow direction.

The sediments encountered in soil borings are predominantly fine grained, consisting of clay, silty clay, sandy clay, gravelly clay and clayey silt. Discontinuous layers of coarse-grained sediments (clayey sand, silty sand, and clayey gravel) generally also contain relatively high percentages of silt and clay, which tend to reduce their permeability. Based on previous investigations conducted by Geosolv and LFR, a relatively coarse-grained layer of silty sand, clayey sand, and clayey gravel was encountered in soil borings E-23, E-25, E-26, GW-2, GW-3, GW-7, and GW-8 at depths of approximately 4.5 to 14 feet bgs. A discontinuous layer of silty to clayey sand was encountered in borings B-11, E-23, E-25, GW-7 and GW-8 at depths of 17 to 21 feet bgs.

Based on SOMA's October 2001 field investigation, no deeper major water-bearing zone was encountered. However, as lithologic logs of the newly installed groundwater monitoring wells indicate, the water-bearing zone is composed of fine-grained, clayey silt sediments separated by very low-permeability intervening clay layers, which are unsaturated in some locations. For instance, SOMA-5, which has been screened within a significantly thick clay layer beneath the first water-bearing zone, from 21 to 26 feet bgs using the dual tubing method, was a dry well until the First Quarter 2002 sampling event. Due to the presence of unsaturated and low-permeability intervening clay layers between the shallow and deep layers, there is a significant vertical downward gradient between the shallow and deep wells.

Based on quarterly monitoring activities, depths of groundwater have ranged from 4 to 14 feet bgs at gradients ranging from 0.019 ft/ft to 0.035 ft/ft. Groundwater flow has been predominantly northeast to southwest across the site. Slug test results indicate that hydraulic conductivity of the saturated sediments ranges between 1.2×10^{-4} and 6.9×10^{-4} cm/sec. Using the average groundwater flow gradient of 0.027 and aquifer porosity of 0.32, the groundwater flow velocity ranges between 10.5 and 60.1 ft/year.

1.4 Previous Activities

In order to demonstrate the fate and transport of PCE and other VOCs, SOMA conducted groundwater flow and chemical transport modeling and compared

results with those of routine groundwater monitoring data. Results of groundwater fate and transport modeling were used to conduct a human health risk assessment in order to evaluate site cleanup levels. Analysis showed that conditions were conducive to biodegradation and that biodegradation is occurring. In general, PCE trends appeared generally consistent with SOMA's model, indicating that passive remediation has been effective. However, one obstacle to closing the site was the presence of free product (FP). Alameda County environmental regulatory guidelines do not permit closure if FP is present. As a result, over the past several years SOMA has been removing FP from the site. As of October 2008, approximately 1,955 gallons were removed. Levels of FP in the wells had been dropping fairly consistently over the past several years and, as noted above, PCE trends were decreasing, consistent with SOMA's model.

FP or sheen have been reported sporadically in monitoring wells at the site since 1997. Past attempts to delineate the extent and sources of FP have been problematic due to variability and complexity of the subsurface soil and water table characteristics, access limited by buildings, and presence of potential preferential pathways for contaminant migration related to underground storm drain and sanitary sewer lines.

FP was located primarily in the vicinity of SOMA-4 and B-8 (Figure 2). As a result, SOMA instituted an FP removal program for those wells in 2002. By March 2008, 1,895 gallons of FP and contaminated groundwater had been removed from SOMA-4 and B-8. As of summer 2007, FP levels had been reduced significantly and SOMA was optimistic that it would be in a position to request closure. However, during First Quarter 2008 groundwater monitoring, FP was unexpectedly observed for the first time in SOMA-2 and B-10, which are located approximately 40 feet east-southeast and northeast of SOMA-4 and B-8. Approximately 0.71 feet of FP was detected in SOMA-2 and 2.76 feet in B-10. During Second Semi-Annual 2008 groundwater monitoring, FP was observed in well B-10 at 0.17 feet and in wells SOMA-2 and SOMA-4 at 0.60 feet each.

Results from the First Semi-Annual 2008 sampling event showed significant increases in PCE levels in wells with newly discovered FP (B-10 and SOMA-2). SOMA believes that the presence of elevated levels of FP in these wells for the first time contributed to the presence of elevated levels of dissolved solvents at this location. The FP consisted primarily of Stoddard solvent, which has the potential to dissolve PCE and TCE. Thus, it is suspected that FP in the area of SOMA-2 and B-10 caused dissolution and mobilization of residual levels of PCE in the subsurface.

In September-October, 2008, SOMA conducted a 45-day multi-phase extraction (MPE) pilot test at the site. Pilot test results showed MPE technology to be highly effective in removing FP, chemically impacted groundwater and soil vapor from the subsurface. An additional 60 gallons of FP was removed during pilot testing.

Significantly, the pilot test showed that MPE can be effective in removing contamination from the smear zone, thereby eliminating the creation of FP. Therefore, the pilot test was extended based on ACEHS correspondence dated December 5, 2008.

2. RESULTS

This section describes results of the current groundwater monitoring event, including groundwater flow conditions, status of groundwater contamination, and occurrence of bioattenuation in the subsurface.

2.1 Groundwater Flow Conditions

Table 2 presents groundwater elevations in each well, calculated using depths to water and the elevation at the top of the well casings. Elevations ranged from 59.28 feet in SOMA-5 to 77.23 feet in MW-8. Refer to Table 2 for detailed groundwater elevation trends.

In evaluating the groundwater flow direction and gradient, water level data from all "B" wells (except B-3 and B-8) and from GW-4, SOMA-1, SOMA-3, and SOMA-5 were not utilized for the following reasons:

1. No accurate information about the construction details of the "B" wells installed by Geosolv is available, and water-level data from these wells are questionable. B-3 and B-8 were reconstructed by SOMA into 2-inch wells.
2. GW-4 was installed adjacent to the storm drain system in order to evaluate whether the system is leaking. This well was installed in the shallow formation and may partially penetrate into the underlying water-bearing zone. Therefore, the water level elevation recorded inside GW-4 may not be representative of the underlying water-bearing zone.
3. SOMA-1, SOMA-3 and SOMA-5 have been completed in the deeper layer of the water bearing zone, and due to the strong vertical gradient, the water level elevation in this layer is significantly lower than in the shallow layer.

Figure 3 displays a contour map of groundwater elevations. In general, groundwater flows from northeast to southwest at an average gradient of 0.017 ft/ft. Groundwater flow direction has remained consistent with the previous monitoring event; however, the groundwater gradient has decreased. A capture zone exists around SOMA-4 due to the ongoing operation of MPE on the site.

Field measurements of some physical and chemical parameters of the groundwater samples are presented in detail in Appendix B field notes, and summarized in Table 3 along with their historical values. Water temperatures

ranged from 14.33°C in B-10 to 21.73°C in MW-11. The temperature variation may reflect changes in air temperature during sampling. Measurements of pH ranged from 6.21 in LFR-3 to 7.07 in SOMA-5. Electrical conductivity (EC) ranged from 7 µS/cm in B-10 to 1149 µS/cm in SOMA-3.

2.2 Groundwater Quality

Table 4 presents laboratory analysis results for the following: total petroleum hydrocarbons as Stoddard solvents (TPH-ss) and as gasoline (TPH-g); methyl tertiary-butyl ether (MtBE); and benzene, toluene, ethylbenzene, total xylenes (collectively termed BTEX).

Due to drought conditions, SOMA's field crew was unable to obtain sufficient groundwater for sampling and analysis from SOMA-5.

TPH-ss was below the laboratory-reporting limit in GW-2, MW-11, and LFR-3. Detectable TPH-ss levels ranged from 57 µg/L in LFR-1 and SOMA-1 to 860,000 µg/L in SOMA-2. Figure 4 shows the contour map of TPH-ss concentrations in groundwater. TPH-ss in B-10 decreased, while it increased in SOMA-2 significantly since the previous monitoring event (Second Semi-Annual 2008).

TPH-g was below the laboratory-reporting limit in GW-2, MW-11, and LFR-3. Detectable TPH-g concentrations ranged from 67 µg/L in LFR-1 to 1,300,000 µg/L in SOMA-2. Groundwater samples from B-10, GW-3, GW-4, LFR-1, LFR-2, LFR-4, SOMA-1, SOMA-2, SOMA-3, and SOMA-4 exhibited a fuel pattern that did not resemble the standard gasoline pattern. Figure 5 shows the contour map of TPH-g concentrations in groundwater. TPH-g concentrations in wells B-10, GW-3, LFR-2, LFR-4, and SOMA-3 decreased since the previous monitoring event (Second Semi-Annual 2008). In SOMA-2, TPH-g concentration increased significantly since the previous monitoring event (Second Semi-Annual 2008).

MtBE was detected in SOMA-1, SOMA-3, SOMA-4, and LFR-4 at 370 µg/L, 280 µg/L, 18 µg/L, and 2.5 µg/L, respectively and was below the laboratory-reporting limit in all other groundwater samples. However, there is no known on-site source of MtBE. Figure 6 shows the contour map of MtBE concentrations in the groundwater.

In general, BTEX constituents were below laboratory-reporting limits throughout the site, except for LFR-2, LFR-4, and SOMA-4. Toluene, ethylbenzene and total xylenes were below laboratory-reporting limits in LFR-2 and LFR-4 and benzene was detected at low levels. In SOMA-4, benzene and ethylbenzene were below laboratory-reporting limits, toluene and total xylenes were detected at 16 µg/L and 29 µg/L, respectively. Figure 7 shows the map of benzene concentrations in groundwater.

Refer to Table 4 for detailed groundwater concentration trends for total petroleum hydrocarbons, MtBE and BTEX.

Table 5 shows historical concentrations of VOCs in the groundwater. PCE was below the laboratory-reporting limit in groundwater samples from GW-4, MW-11, LFR-2, LFR-4, and SOMA-4. Detectable PCE concentrations ranged from 1.5 µg/L in LFR-3 to 1,200 µg/L in B-10. Figure 8 shows the contour map of PCE concentrations in groundwater. Since the previous monitoring event (Second Semi-Annual 2008), PCE has decreased in SOMA-1, SOMA-2, and SOMA-3.

TCE was below the laboratory-reporting limit in groundwater samples from GW-3, GW-4, MW-11, LFR-2, LFR-3, LFR-4, and SOMA-4. Detectable TCE concentrations ranged from 6.2 µg/L in GW-2 to 1,200 µg/L in B-10. Figure 9 shows the contour map of TCE concentrations in groundwater. Since the previous monitoring event (Second Semi-Annual 2008), TCE has decreased in GW-3, LFR-1, SOMA-1, SOMA-2, SOMA-3 and increased in B-10 and GW-2.

Cis-1,2-DCE was below the laboratory-reporting limit in groundwater samples from GW-2, GW-3, MW-11, and LFR-3. Detectable cis-1,2-DCE concentrations ranged from 0.7 µg/L in LFR-4 to 5,900 µg/L in SOMA-2. Figure 10 shows the contour map of cis-1,2-DCE concentrations in groundwater. Since the previous monitoring event (Second Semi-Annual 2008), cis-1,2-DCE concentrations have decreased significantly in B-10 and SOMA-2.

Trans-1,2-dichloroethene (trans-1,2-DCE) was below the laboratory-reporting limit in all groundwater samples except at LFR-2, SOMA-1, SOMA-3, and SOMA-4. Detectable trans-1,2-DCE concentrations ranged from 2.3 µg/L in LFR-2 to 13 µg/L in SOMA-3. Figure 11 shows the contour map of trans-1,2-DCE concentrations in groundwater.

Vinyl chloride (VC) was below the laboratory-reporting limit throughout the site, except for samples from LFR-2 at 32 µg/L. 1,2-dichloropropane (1,2-DCP) was below the laboratory-reporting limit throughout the site, except for samples from GW-4 and SOMA-1 at 1.7 µg/L and 3.5 µg/L, respectively. Due to generally low or non-detectable levels of these constituents throughout the site, no iso-concentration figures were drawn for VC and 1,2-DCP.

Table 5 shows detailed PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, VC, and 1,2-DCP groundwater concentration trends.

Appendix C includes chain of custody forms and laboratory analytical reports for this groundwater monitoring event.

2.3 Bioattenuation Parameter Analysis Results

Results of the bioattenuation study indicated that subsurface conditions are favorable for occurrence of intrinsic bioremediation processes in soil and groundwater. Results of this study indicated that PCE and other dissolved organic compounds are biodegrading beneath the site. For example, PCE levels in LFR-1 have dropped from 2,800 µg/L in 2000 to 100 µg/L during this monitoring event. SOMA's field crew measured bioattenuation parameters in situ. Dissolved methane was measured in the laboratory. Field measurements were taken in situ, within each well, to avoid introducing oxygen into the groundwater sample, which could result in erroneous readings.

Naturally occurring biological processes can enhance the removal rate of contaminants in the subsurface. During the degradation process, indigenous bacteria in the subsurface utilize energy released from the transfer of electrons to drive redox reactions that remove organic mass from contaminated groundwater. The more positive the redox potential of an electron acceptor, the more energetically favorable is the reaction utilizing that electron acceptor. Based on thermodynamic considerations, the most energetically preferred electron acceptor for redox reactions is dissolved oxygen (DO), followed by nitrate, manganese, ferric iron, sulfate, and carbon dioxide, in descending order of preference. Evaluating distribution of these electron acceptors can provide evidence of where, and to what extent, chlorinated and aliphatic hydrocarbon biodegradation is occurring. Byproducts of biodegradation processes are nitrite, ferrous iron, alkalinity, sulfide, methane, and carbon dioxide. Groundwater samples were tested to evaluate the extent of bioattenuation processes beneath the site. Table 6 summarizes these bioattentuation parameters.

Dissolved Oxygen: DO is the most favored electron acceptor used by microbes for biodegrading organic compounds. A DO concentration lower than 0.5 mg/L indicates anaerobic conditions. DO levels ranged from 0.13 mg/L in GW-3, GW-4, and LFR-3 to 0.25 mg/L in MW-11. The contour map of DO concentrations in the groundwater is illustrated in Figure 12.

It should be noted that due to limitations of drilling equipment, SOMA-3 is still a ¾-inch-diameter well that was installed in the deeper zone, within the suspected chemical source area, which is inside the building. Although DO was measured in SOMA-3 at 0.20 mg/L, results might not be representative of overallsubsurface conditions.

Nitrate: After DO has been depleted, nitrate may be used as an electron acceptor for anaerobic biodegradation. Nitrate concentrations lower than 1.0 mg/L may indicate that reductive dechlorination is occurring. Nitrate was below the minimum equipment tolerance level in MW-11, LFR-1, LFR-4, SOMA-2, SOMA-3, and SOMA-5 and detectable concentrations ranged from 0.2 mg/L in

LFR-2 to 5.70 mg/L at B-10. The contour map of nitrate concentrations in groundwater is illustrated in Figure 13.

Manganese: After DO and nitrate have been depleted, manganese may be used as an electron acceptor for anaerobic biodegradation. Therefore, increased dissolved manganese concentrations in groundwater indicate reductive dechlorination. Soluble manganese was detected in all groundwater samples except those from LFR-3. Detectable manganese concentrations ranged from 0.6 mg/L in MW-11 to 63.4 mg/L in SOMA-5. The contour map of dissolved manganese concentrations in the groundwater is illustrated in Figure 14.

Sulfate: After DO, nitrate, and manganese have been depleted, sulfate may be used as an electron acceptor for anaerobic biodegradation. This process is termed sulfate reduction, and results in production of sulfide. Sulfate concentrations lower than 20 mg/L indicate reductive dechlorination (EPA 1998). Sulfate was not detected in LFR-2, LFR-4, and SOMA-5. Detectable sulfate levels ranged from 8 mg/L in GW-4 to the equipment maximum allowable tolerance level of 80 mg/L in B-10, SOMA-2, and SOMA-4. The contour map of sulfate concentrations in the groundwater is illustrated in Figure 15.

Ferrous Iron: Increased ferrous iron concentrations often accompany anaerobic degradation. Ferric iron can be used as an electron acceptor during anaerobic biodegradation. During this process, ferric iron is reduced to ferrous iron, which may be soluble in water. Ferrous iron concentrations can thus be used as an indicator of anaerobic biodegradation. Detectable ferrous iron concentrations ranged from 0.02 mg/L in GW-3 and MW-11 to the equipment maximum allowable tolerance level of 3.30 mg/L in GW-4, LFR-2, and SOMA-2. Ferrous iron concentrations were not detected in LFR-1 and LFR-3. The contour map of ferrous iron concentrations in the groundwater is illustrated in Figure 16.

Methane: The presence of methane in groundwater indicates strongly reduced conditions and suggests reductive dechlorination by the process of methanogenesis. Methane was below the laboratory-reporting limit in GW-2, GW-3, MW-11, LFR-1, and LFR-3. Detectable methane concentrations ranged from 0.83 mg/L in SOMA-3 to 4.4 mg/L in LFR-4. Higher concentrations of methane indicate conditions conducive to anaerobic biodegradation. The contour map of methane concentrations in groundwater is illustrated in Figure 17.

Oxygen Reduction Potential (ORP): The ORP of groundwater is a measure of electron activity and an indicator of the relative tendency of a solution to accept or transfer electrons. ORP may range from greater than 800 mV to less than -400 mV, with lower values expected in areas where anaerobic processes are occurring. ORP measurements obtained in this sampling event ranged from -119.4 mV in SOMA-5 to +34.40 mV in MW-11.

Negative ORP values, detected in B-10, GW-3, GW-4, LFR-2, LFR-3, LFR-4, SOMA-2, SOMA-4, and SOMA-5, indicate that conditions in and near the apparent source area are conducive to anaerobic biodegradation. Positive redox potentials are more energetically favorable in utilizing electron acceptors during chemical reactions. This promotes removal of organic mass from the contaminated groundwater by indigenous bacteria in the subsurface. Refer to Table 6 for detailed bioattentuation parameter trends.

2.4 Other Parameters

(See Table 3.)

Alkalinity: Alkalinity is a general water quality parameter. High alkalinity levels are a result of interaction between carbon dioxide (a product of several biodegradation processes) and aquifer minerals. Due to the inconclusive data collected during previous groundwater monitoring events in connection with the bioattenuation process, no alkalinity data was collected during the current or previous groundwater monitoring events.

Chloride: Chloride is the final product of the reduction of chlorinated solvents, and also a general water quality parameter. Due to the inconclusive data collected during previous groundwater monitoring events in connection with the bioattenuation process, no chloride data was collected during this or previous groundwater monitoring events.

Carbon Dioxide: Carbon dioxide is a product of several biodegradation processes. Due to the inconclusive data collected during previous groundwater monitoring events in connection with the bioattenuation process, no carbon dioxide data was collected during recent groundwater monitoring events.

Iron: Ferric iron may be used as an electron acceptor during anaerobic biodegradation. During this process, ferric iron is reduced to ferrous iron that may be soluble in water. Ferric iron concentrations may be obtained by subtracting ferrous iron concentrations from total iron concentrations. Total iron was not detected in LFR-1 and LFR-3. Detectable total iron concentrations ranged from 0.10 mg/L in GW-3 to the equipment maximum allowable tolerance level of 3.30 mg/L in B-10, GW-4, LFR-2, LFR-4, SOMA-2, and SOMA-5.

Nitrite: Nitrate may reduce to nitrite during the process of anaerobic biodegradation. Nitrite was below the equipment minimal tolerance level in GW-4, LFR-1, LFR-4, SOMA-2, and SOMA-5. Detectable nitrite concentrations ranged from 0.002 in LFR-3 to 0.012 mg/L in B-10.

Sulfide: When sulfate is used as an electron acceptor for anaerobic biodegradation it is reduced to sulfide. Due to the inconclusive data collected

during previous groundwater monitoring events in connection with the bioattenuation process, sulfide data was not collected during the current groundwater monitoring event.

pH, Temperature, and Conductivity: The pH of groundwater affects activity of microbial populations in the groundwater, with optimal pH values ranging from 6 to 8 standard units for microbes capable of degrading PCE and other chlorinated aliphatic hydrocarbons. Groundwater temperature affects metabolic activity of bacteria, and groundwater conductivity is directly related to the concentration of ions in solution. The pH, temperature, and conductivity values are included in Table 3.

2.5 Groundwater Storage and Disposal

Appendix F contains the Non-Hazardous Waste Manifest for removal of purged groundwater from the site. Four 55-gallon drums (approximately 200 gallons of purged groundwater), generated during the previous monitoring event (Second Semi-Annual 2008) and MPE pilot testing were off-hauled to an appropriate disposal facility.

3. FREE-PRODUCT REMOVAL ACTIVITIES

Prior to installation of a skimmer pump in SOMA-4 on January 28, 2004, over 9 feet of FP was on the surface of groundwater in this well. On February 6, 2004, SOMA installed a flexible axial peristaltic pump (FAP system) in SOMA-4 to remove FP.

In August 2004, SOMA converted borings B-3 and B-8 into wells for removal of FP from these locations. The FAP system was installed in B-8, in addition to the February 2004 installation in SOMA-4, to remove FP. As of March 2008, approximately 1,895 gallons of FP and contaminated groundwater were removed by the FAP from these two wells; it was transported off-site by NRC. SOMA has been frequently checking levels of, and removing, FP. Table 7 shows field observations for extraction wells SOMA-4, B-8, B-10 and SOMA-2. During the First Semi-Annual 2008 monitoring event, FP was unexpectedly observed in wells B-10 and SOMA-2 at 2.76 feet and 0.71 feet, respectively. During MPE pilot testing (September-October 2008), an additional 60 gallons of FP was removed from the extraction wells.

Figure 18 illustrates historical FP thickness measured in extraction wells. Results of current observations indicate that no FP is present on the site.

4. MULTI-PHASE EXTRACTION (MPE) PILOT TESTING

Currently, extended MPE pilot testing is being conducted at the site using B-8, B-10, SOMA-4, and SOMA-2. The testing began in September 2008, continued until October 2008, and was resumed on December 17, 2008. The system was shut down during the Christmas and New Year long holiday weekends. During the initial pilot testing from September 2, 2008 to October 24, 2008, 543 lbs of total contaminants measured by PID were removed. Based on laboratory analytical results, total mass removed as TPH-ss during the initial testing was 761 lbs and 26 lbs as chlorinated. The discrepancy between the mass removal calculated from (1) PID measurements and (2) analysis of samples sent to the laboratory is based on the fact that PID results are continuous while samples sent to the lab are discreet.

The total mass of VOCs as TPH-ss removed since December 17, 2008 is 930.9 pounds (as calculated from the analytical results), for an average of 9.5 pounds per day. Table 8 includes the field data while Table 9 includes the estimated mass of chemicals removed during the second pilot testing period.

A majority of the VOCs in the vapor stream is TPH-ss, the remainder is a combination of chlorinated solvents. During the second pilot testing period, the total mass of chlorinated solvents removed was 9.28 pounds (as calculated from the analytical results), for an average removal rate of 0.1 pounds per day (Table 9, Appendix E). During the pilot test samples of soil vapors were collected on January 7 and March 10, 2009. The results of laboratory analysis were used in calculating the mass of chemicals removed during the pilot testing.

There is a discrepancy in mass of VOCs between PID measurements as TPH-ss taken in the field and laboratory analyses of the extracted vapor stream. Although the vapor stream contains various compounds, the vapor stream mass as VOCs will be assumed as TPH-ss since a majority of the vapor stream consists of TPH-ss according to laboratory analytical results. However, the concentrations based on laboratory analysis are representative only of that moment in the pilot test at which the extracted vapor stream was sampled. Since the laboratory analytical results are not representative of the entire length of the pilot test, unlike the PID measurements that are collected continuously over the length of the pilot test where fluctuations in concentrations can be observed and taken into account, the total mass of VOCs (as TPH-ss) removed as measured by PID was also used to estimate mass removals. Based on the PID readings the total mass of TPH-ss removed during this period was 723.3 pounds as presented in Table 8.

During this monitoring event, no FP was observed in the extraction or monitoring wells. The reduction in mass removal rates of TPH-ss and chlorinated solvents observed during the second MPE pilot testing is likely due to rainfall events and increased soil moisture content in the vadose zone. During the second phase of pilot testing over 39,000 gallons of groundwater was extracted in 86 days of

operation and treated with granular activated carbon before being discharged. During the initial MPE pilot testing only 3,900 gallons of groundwater was discharged in 53 days of operation. Ongoing MPE pilot testing is proving successful in removing FP from the smear zone and will continue.

5. FINDINGS OF CURRENT MONITORING EVENT

5.1 Current Environmental Conditions

Based on data obtained during the First Semi-Annual 2009 groundwater monitoring event, current environmental conditions at the site are as follows:

1. All analyzed constituents in the farthest downgradient well, LFR-3, were below laboratory-reporting limits except for PCE (detected at 1.5 µg/L). The results are consistent with modeling performed by SOMA which predicted that PCE levels would barely reach LFR-3. Furthermore, all analyzed constituents in the farthest upgradient well, MW-11, were below laboratory-reporting limits.
2. Data collected to date regarding distribution of PCE and other VOCs in groundwater demonstrate that PCE has degraded into some of its breakdown products in certain groundwater monitoring wells.
3. Results of this sampling event showed a significant decrease in PCE and TCE levels in B-10 and SOMA-2 since the sampling event of February and March 2008, when FP was discovered for the first time in these wells. Since the previous monitoring event (Second Semi Annual 2008), PCE and TCE have decreased in SOMA-2 and increased slightly in B-10.
4. PCE typically degrades into TCE, then cis-1,2-DCE and then trans-1,2-DCE (at much lower concentrations than cis-1,2-DCE), then to VC, ethane and ethene and, finally, to carbon dioxide, water, and chloride. This sequence of degradation would be anticipated where biological reductive dehalogenation of PCE is occurring. The presence of TCE in B-10, GW-2, LFR-1, SOMA-1, SOMA-2 and SOMA-3 demonstrates that PCE degradation is occurring. The presence of cis-1,2-DCE in B-10, GW-4, LFR-1, LFR-2, LFR-4, SOMA-1, SOMA-2, SOMA-3, and SOMA-4 indicates the occurrence of dechlorination of PCE in the subsurface.
5. Results of DO, nitrate, manganese, sulfate, ferrous iron, methane, and ORP measurements demonstrate that conditions in the apparent source area are conducive to reductive dechlorination processes.
6. In general, the region near B-10, SOMA-2, and SOMA-4 appears to be more impacted by chemicals of potential concern. This is due to the presence of free product in this area. As the field observation indicates using the recent remediation technology (MPE technology) has completely removed residual free product from subsurface in this area. As such, it is

expected that concentration of dissolved phase chemical will reduce due to on-going dehalogenation processes in subsurface. It is expected that the concentration of chemicals of concern will approach to the Environmental Screening Levels (ESLs) as set forth by the Regional Water Quality Control Board, San Francisco bay Region.

7. It appears that using MPE technology has been effective in removing FP from the subsurface.

5.2 Recommendations

SOMA has recently submitted a workplan for advancement of soil borings and installation of additional extraction wells. The workplan will be implemented on receipt of written authorization from ACEHS and cost preapproval from the client.

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TABLES

Table 1
Construction Data for Temporary Sampling Points and Monitoring Wells
Former Glovatorium Site
3815 Broadway, Oakland, California

Location	Date Installed	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Total Depth (feet)	Screen Interval Depth (feet)	Screen Interval Elevation (feet)
Temporary Sampling Points Installed by Geosolv, LLC						
B-2	19-Aug-97	82.20	82.09	21	5 to 21	77.2 to 61.2
B-3[1]	19-Aug-97	82.60	82.57	18	5 to 18	77.6 to 64.6
B-7	20-Aug-97	77.33	76.96	17.5	5 to 17.5	72.3 to 59.8
B-8	20-Aug-97	82.06	81.82	24	9 to 24	73.1 to 58.1
B-9	21-Aug-97	77.57	77.37	19.5	4.5 to 19.5	73.1 to 58.1
B-10	21-Aug-97	81.65	81.50	19	4 to 9	77.7 to 62.7
B-13	22-Aug-97	85.12	84.58	20	5 to 20	80.1 to 65.1
Temporary Sampling Points Installed by LFR						
GW-1	16-Jul-99	80.24	79.94	8	3 to 8	77.2 to 72.2
GW-2	16-Jul-99	79.44	79.14	20	10 to 20	69.4 to 59.4
GW-3	15-Jul-99	78.48	77.92	20	10 to 20	68.5 to 58.5
GW-4	16-Jul-99	82.55	82.37	12	7 to 12	75.6 to 70.6
GW-5	15-Jul-99	81.31	81.01	13	8 to 13	73.3 to 68.3
GW-6[2]	15-Jul-99	81.91	81.65	13.5	7.5 to 13.5	74.4 to 68.4
GW-6A[2]	16-Jul-99	81.93	81.61	15	5 to 15	76.9 to 66.9
GW-7[2]	15-Jul-99	81.30	NS	20	10 to 20	71.3 to 61.3
GW-8[2]	16-Jul-99	80.28	80.10	20	10 to 20	70.3 to 60.3
Temporary Sampling Points Installed by TOSCO						
MW-8	unknown	NS	87.44	unknown	unknown	unknown
MW-9	unknown	NS	86.56	unknown	unknown	unknown
MW-11	unknown	NS	84.13	unknown	unknown	unknown
Groundwater Monitoring Wells Installed by LFR						
LFR-1	28-Jul-00	NS	79.97	19	9 to 19	unknown
LFR-2	27-Jul-00	NS	81.89	19	9 to 19	unknown
LFR-3	27-Jul-00	NS	77.96	22	12 to 22	unknown
LFR-4	28-Jul-00	NS	81.65	19	9 to 19	unknown
Groundwater Monitoring Wells Installed by SOMA						
SOMA-1	4-Oct-01	82.31	81.64	40	25 to 40	42.31 to 57.71
SOMA-2	11-Oct-01	81.62	81.39	20	10 to 20	61.62 to 71.62
SOMA-3	11-Oct-01	81.65	81.42	30	21 to 26	60.65 to 71.51
SOMA-4	12-Oct-01	81.51	81.09	20	10 to 20	61.51 to 71.51
SOMA-5	12-Oct-01	61.68	81.50	26	21 to 26	55.68 to 60.68

Notes:

[1] Top of casing surveyed on south side on January 21, 2000, because the casing was broken.

[2] GW-7 was abandoned on July 15, 1999, in accordance with LFR's workplan dated May 6, 1999. GW-6 and GW-8 were abandoned on July 26, 2000, in accordance with LFR's workplan dated June 14, 2000.

NS = Not surveyed.

Table 2
Historical Groundwater Elevation Data (feet)
Former Glovatorium Site
3815 Broadway, Oakland, California

Date	B-2	B-3	B-7	B-8	B-9	B-10	B-13
9-Feb-09	**73.46**	**73.72**	**DRY**	**70.52**	**66.72**	**70.63**	**DRY**
21-Aug-08	71.98	72.65	DRY	68.80	66.64	70.47	DRY
19-Feb-08	78.05	74.51	DRY	68.27	68.33	69.75	64.58
23-Aug-07	70.45	71.54	DRY	64.66	63.89	67.76	75.59
28-Feb-07	78.13	76.18	Dry	70.80	70.14	74.18	75.77
05-Jul-06	74.24	74.86	68.78	62.47	68.81	72.70	75.66
05-Jan-06	79.72	77.85	71.76	74.02	71.28	74.91	NM
05-Jul-05	74.49	75.23	69.05	NM	69.05	72.91	DRY
1-Feb-05	75.67	76.19	72.85	NM	69.76	73.54	75.90
03-Aug-04	73.52	73.46	68.03	73.90	68.22	72.13	75.57
29-Jan-04	74.99	75.31	70.01	NM	69.24	73.07	75.66
29-Jul-03	73.99	73.83	68.53	72.39	68.67	72.58	75.80
18-Feb-03	75.83	75.55	69.94	73.01	70.00	73.87	75.77
22-Oct-02	73.29	73.06	67.98	71.43	68.10	72.09	NM
17-Jul-02	74.02	73.82	NM	72.37	68.59	72.51	NM
16-Apr-02	75.16	75.34	69.41	73.54	69.38	73.21	NM
31-Jan-02	77.35 (FP)	77.16 (FP 0.5')	70.79	75.03 (FP 0.5')	70.43	74.14	77.53 (FP 0.7')
18-Oct-01	73.26 (0.25' FP)	73.24 (1' FP)	67.89	69.51 (2.1' FP)	67.98	71.96	DRY
26-Jul-01	73.86	73.17	68.69	70.41	68.73	72.61	DRY
26-Apr-01	75.26	74.00	69.60	73.19	69.80	73.61	
29-Jan-01	74.63	75.06	69.11	74.23	69.33	73.20	
2-Nov-00							
31-Oct-00							
30-Oct-00	74.34	74.84 (FP)	69.01	73.32	69.42	73.35	DRY
10-Aug-00							
9-Aug-00	73.9 (FP)	74.55 (FP)	68.61	72.8 (FP)	68.82	72.65	75.23
27-Apr-00	75.41 (FP)	75.86 (FP)	69.85 (FP)	74.14 (FP)	69.96	73.70	75.87
25-Jan-00							
24-Jan-00	75.93 (FP)	75.83	69.66 (FP)	72.84	70.25 (FP)	74.15(FP)	
21-Jan-00							76.32
20-Jan-00							
19-Jan-00	73.97 (FP)	73.22 (2)	68.6 (FP)	71.81 (FP)	68.91(FP)	73.02(FP)	74.18
27-Aug-99							
18-Feb-98	78.16 (1)	78.04 (1)	71.57 (1)	76.64 (1)	71.44(1)	75.13(1)	78.51(1)
26-Oct-97	72.66 (1)	73.64 (1)	68.09 (1)	71.11 (1)	68.39(1)	72.26(1)	73.02(1)

Table 2
Historical Groundwater Elevation Data (feet)
Former Glovatorium Site
3815 Broadway, Oakland, California

Date	GW-1	GW-2	GW-3	GW-4	GW-5	GW-6A	GW-8	MW-8	MW-9	MW-11
9-Feb-09	**DRY**	**67.28**	**68.01**	**74.87**	**68.59**	**67.76**	**NM**	**77.23**	**76.83**	**71.64**
21-Aug-08	DRY	66.59	67.88	DRY	68.88	67.70	NM	76.38	75.94	68.43
19-Feb-08	DRY	60.89	67.15	74.81	69.10	67.94	NM	76.70	76.00	69.82
22-Aug-07	DRY	DRY	66.71	DRY	68.54	67.89	NM	75.98	75.15	70.70
28-Feb-07	72.31	69.95	68.39	74.90	69.73	68.13	NM	79.05	78.64	71.30
05-Jul-06	71.94	69.74	66.49	70.37	68.96	68.01	NM	77.74	77.72	72.47
05-Jan-06	72.13	70.29	68.06	75.08	70.59	69.01	NM	80.66	79.96	71.51
5-Jul-05	DRY	69.38	67.03	73.57	69.53	68.03	NM	77.81	77.73	70.21
1-Feb-05	72.13	68.72	67.91	74.40	69.89	68.04	NM	78.46	78.42	71.68
3-Aug-04	72.13	68.19	67.54	72.54	69.46	67.93	NM	NM	NM	73.22
29-Jan-04	NM	68.37	68.05	74.69	68.71	68.00	NM	77.82	78.76	74.08
29-Jul-03	NM*	68.69	67.67	72.61	68.82	67.97	NM	77.44	77.11	73.78
18-Feb-03	NM*	69.02	68.26	74.75	70.35	67.97	NM	78.82	78.59	74.68
22-Oct-02	NM*	67.92	67.78	71.70	68.67	67.85	NM	76.89	76.51	73.12
17-Jul-02	NM*	68.61	67.78	72.65	68.76	67.95	NM	77.27	77.12	73.90
16-Apr-02	NM	69.76	68.14	74.11	68.68	68.07	NM	77.97	NM	74.98
31-Jan-02	-	69.77	68.28	74.83	68.78	68.06		78.86	79.41	75.48
18-Oct-01	NM	67.91	67.67	74.22	68.41	67.81		76.81	76.46	72.97
26-Jul-01	NM	68.55	67.84	73.85	68.77	68.00		77.40	77.03	73.73
26-Apr-01	NM	69.41	67.93	74.59	68.43	68.43				74.81
29-Jan-01	71.99	68.62	67.89	74.92	68.61	67.90		78.14	77.95	73.79
2-Nov-00								78.38	78.31	
31-Oct-00										
30-Oct-00		68.45	67.95	74.55	68.64	68.16				73.62
10-Aug-00								77.26	77.14	
9-Aug-00	DRY	69.11	66.54	DRY	68.71	67.88				74.12
27-Apr-00	DRY	70.59	68.16	73.97	68.70	68.00	71.34	79.15	77.25	75.35
25-Jan-00										73.48
24-Jan-00										
21-Jan-00		68.32		74.33						
20-Jan-00			67.93		68.61		70.42			
19-Jan-00	DRY	68.24	67.86	74.71	68.61	67.63	70.44			
27-Aug-99	DRY	68.46	67.66	NM	68.71	67.71	70.60			
18-Feb-98										
26-Oct-97										

Table 2
Historical Groundwater Elevation Data (feet)
Former Glovatorium Site
3815 Broadway, Oakland, California

Date	LFR-1	LFR-2	LFR-3	LFR-4	SOMA-1	SOMA-2	SOMA-3	SOMA-4	SOMA-5
9-Feb-09	**70.42**	**70.74**	**66.37**	**67.51**	**66.86**	**70.69**	**67.97**	**69.00**	**59.28**
21-Aug-08	69.81	69.57	65.20	66.02	65.63	70.63	67.24	67.27	56.49
19-Feb-08	69.94	70.90	61.64	62.35	61.04	71.39	64.87	64.51	56.51
23-Aug-07	69.64	69.18	60.03	62.52	59.51	69.72	63.23	63.05	DRY
28-Feb-07	70.98	73.41	67.90	69.99	69.10	73.73	70.96	71.63	61.57
05-Jul-06	70.36	71.29	67.60	69.33	68.99	72.59	71.02	71.11	78.70
05-Jan-06	70.97	74.56	69.04	NM	70.11	74.60	71.99	FP	76.78
5-Jul-05	70.26	71.52	67.45	69.31	68.55	72.78	70.65	FP	78.66
1-Feb-05	70.61	72.64	68.09	NM	69.08	73.20	71.05	NM	78.92
3-Aug-04	70.13	70.70	66.42	NM	67.24	69.34	72.03	NM	62.18
28-Jan-04	70.41	NM	67.44	69.13	68.33	70.35	73.00	FP	58.50
29-Jul-03	70.18	70.96	66.71	68.37	67.84	69.84	72.48	FP	57.18
18-Feb-03	70.63	73.08	67.61	69.44	68.77	70.74	73.77	NM	56.59
22-Oct-02	70.00	70.48	66.13	67.85	66.92	69.00	72.01	NM	59.43
17-Jul-02	70.18	70.98	67.67	68.33	67.62	72.40	69.64	NM	59.53
16-Apr-02	70.36	71.71	67.60	69.27	68.85	73.06	70.90	68.56	59.48
31-Jan-02	70.56	71.92	67.72	NM	69.36	73.98	71.46	69.79(FP 2.5')	57.38
18-Oct-01	70.04	70.53	66.09	67.74	67.89	71.86	68.32	69.77	NM
26-Jul-01	70.16	70.92	66.56	68.33					
26-Apr-01	70.23	71.90	67.62	68.87					
29-Jan-01	70.44	72.04	66.96	67.92					
2-Nov-00									
31-Oct-00				68.14					
30-Oct-00	70.22	71.62	66.99						
10-Aug-00									
9-Aug-00	70.16	69.99	66.76	68.39					
27-Apr-00									
25-Jan-00									
24-Jan-00									
21-Jan-00									
20-Jan-00									
19-Jan-00									
27-Aug-99									
18-Feb-98									
26-Oct-97									

Notes:

1= Survey elevation and water-level measurement taken at concrete surface. Elevations and water levels without a "1" were measured from top of casing.

2= Top of the casing was re-surveyed because it was broken.

NM: not measured

FP= Floating product or sheen was observed.

* Monitoring well GW-1 was dry

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
Temporary Sampling Points Installed by Geosolv, LLC												
B-7	11-Aug-00	760	39	202				<0.0005	<0.0005	6.86	17.55	1279
B-7 field	11-Aug-00					-1.00	0.05					
	31-Oct-00	760	42	200	14.00	<0.1	<2.0					
B-7 field	31-Oct-00				17.22	-1.00	-1.00			6.16	16.05	1454
	31-Jan-00	720	43	170	12.00	<0.1	<2.0					
B-7 field	31-Jan-00									6.79	13.90	1424
	26-Apr-01				>3.3	0.24				6.59	16.30	1340
	26-Jul-01				15.30	0.02				6.39	15.97	1400
B-10 field	10-Aug-00					0.02	0.06					
B-10	31-Oct-00	500	76	120	6.60	<0.1	<2.0					
	31-Oct-00				8.35	0.00	0.00			6.21	16.62	1051
	31-Jan-01	480	81	72	6.10	<0.1	<2.0					
	31-Jan-01				1.44	0.07				6.81	14.66	1117
	11-Jun-01				1.31					6.65	16.70	1090
	26-Jul-01				6.50	0.00				6.38	16.09	1160
	10-Aug-01	520	74	145	6.00	<0.05	<0.04	<0.0005	0.00	6.86	16.80	1130
	6-Jul-05	NM	NM	NM	3.30	0.348	NM	<0.005	<0.005	6.70	16.55	1420
	9-Jan-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.68	16.48	1410
	6-Jul-06	NM	NM	NM	3.30	0.122	NM	<0.005	<0.005	7.19	15.80	1170
	1-Mar-07	NM	NM	NM	3.20	0.000	NM	<0.005	<0.005	7.12	10.79	776
	23-Aug-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	20-Feb-08	NM	NM	NM	3.30	0.244	NM	NM	NM	NM	NM	NM
	21-Aug-08	NM	NM	NM	3.30	0.196	NM	NM	NM	6.83	20.43	380
	10-Feb-09	**NM**	**NM**	**NM**	**3.30**	**0.012**	**NM**	**NM**	**NM**	**6.89**	**14.33**	**7**
Temporary Sampling Points Installed by LFR												
GW-2	01-Nov-00									6.31	18.97	1218
	30-Jan-01			63								
GW-2 field	31-Jan-01									6.82	13.75	846
	26-Apr-01				0.02					6.80	19.50	874
	26-Jul-01				0.03	0.02				6.74	20.30	803
	19-Oct-01	NM	NM	NM	NM	NM	NM	NM	NM	6.84	21.30	786

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
GW-2 cont.	31-Jan-02	NM	NM	NM	1.05	0.01	NM	NM	NM	6.70	17.70	797
	16,17-Apr-02	NM	NM	NM	0.65	0.02	NM	NM	NM	6.38	17.00	707
	17,18-Jul-02	NM	NM	NM	1.39	0.00	NM	NM	NM	6.35	17.75	798
	23-Oct-02	NM	NM	NM	0.12	0.04	NM	NM	NM	6.73	19.78	670
	19-Feb-03	NM	NM	NM	0.10	0.02	NM	NM	NM	6.86	18.10	607
	29-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	7.26	20.10	651
	29-Jan-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.72	18.00	542
	4-Aug-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.85	19.92	561
	2-Feb-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.82	18.34	503
	6-Jul-05	NM	NM	NM	0.00	0.00	NM	<0.005	<0.005	6.78	19.07	529
	6-Jan-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.88	17.89	510
	6-Jul-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.99	17.80	657
	28-Feb-07	NM	NM	NM	0.37	0.024	NM	<0.005	<0.005	6.27	16.70	544
	22-Aug-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	20-Feb-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	22-Aug-08	NM	NM	NM	0.30	0.032	NM	NM	NM	6.55	22.66	422
	9-Feb-09	**NM**	**NM**	**NM**	**0.22**	**0.004**	**NM**	**NM**	**NM**	**6.59**	**17.40**	**614**
GW-3	11-Aug-00	340	25	54				<0.0005	<0.0005	7.05	21.43	860
GW-3 field	11-Aug-00					0.05	-1.00					
GW-3 field	1-Nov-00									6.52	18.83	967
	1-Feb-01			54								
GW-3 field	29-Jan-01									6.89	17.29	602
	11-Jun-01				0.00	0.70				5.68	16.20	673
	26-Jul-01				0.14	0.00				6.53	22.25	547
	19-Oct-01	NM	NM	NM	0.00	NM	NM	NM	NM	6.84	22.56	590
	31-Jan-02	NM	NM	NM	0.14	0.01	NM	NM	NM	6.70	18.40	593
	16,17-Apr-02	NM	NM	NM	0.00	0.00	NM	NM	NM	6.64	16.61	526
	17,18-Jul-02	NM	NM	NM	1.08	0.01	NM	NM	NM	6.32	17.10	545
	23-Oct-02	NM	NM	NM	0.00	0.00	NM	NM	NM	6.36	19.80	425
	19-Feb-03	NM	NM	NM	0.08	0.01	NM	NM	NM	6.77	17.80	412
	29-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	7.07	19.40	490
	29-Jan-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.65	18.20	450
	3-Aug-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.74	20.20	436
	2-Feb-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.28	19.39	445
	6-Jul-05	NM	NM	NM	0.00	0.00	NM	<0.005	<0.005	6.90	18.99	415
	6-Jan-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.89	18.75	471
	6-Jul-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.90	17.30	560
	1-Mar-07	NM	NM	NM	0.14	0.010	NM	<0.005	<0.005	6.59	16.15	518
	23-Aug-07	NM	NM	NM	0.07	0.210	NM	<0.005	<0.005	6.58	19.71	412
	20-Feb-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.62	18.66	275
	22-Aug-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.10	21.52	463
	9-Feb-09	**NM**	**NM**	**NM**	**0.10**	**0.009**	**NM**	**NM**	**NM**	**6.38**	**17.90**	**440**

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
GW-4	30-Jan-01									6.60	13.48	479
	26-Jul-01				2.00	0.04				6.45	19.44	827
	19-Oct-01	NM	NM	NM	11.00	NM	NM	NM	NM	6.79	18.36	732
	31-Jan-02	NM	NM	NM	12.70	0.01	NM	NM	NM	6.50	12.00	414
	16,17-Apr-02	NM	NM	NM	6.40	0.03	NM	NM	NM	6.34	13.98	467
	17,18-Jul-02	NM	NM	NM	>3.3	0.03	NM	NM	NM	6.49	21.93	572
	23-Oct-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	19-Feb-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.67	13.60	466
	30-Jul-03	NM	NM	NM	3.30	0.00	NM	NM	NM	7.30	18.70	430
	29-Jan-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.85	13.00	534
	3-Aug-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.96	22.62	509
	1-Feb-05	NM	NM	NM	3.30	0.00	NM	NM	NM	6.80	13.25	382
	6-Jul-05	NM	NM	NM	3.30	0.028	NM	<0.005	<0.005	6.98	18.71	403
	5-Jan-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.72	17.98	610
	28-Feb-07	NM	NM	NM	3.30	0.000	NM	<0.01	<0.01	6.70	12.63	369
	22-Aug-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	20-Feb-08	NM	NM	NM	1.18	0.000	NM	NM	NM	6.54	13.42	248
	21-Aug-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10-Feb-09	**NM**	**NM**	**NM**	**3.30**	**0.000**	**NM**	**NM**	**NM**	**6.45**	**17.67**	**487**
Monitoring Wells Owned by TOSCO												
MW-11	10-Aug-00	360	110	216	0.13	<0.05	<0.04	<0.0005	<0.0005	6.47	21.00	1
MW-11 field	10-Aug-00					0.04	0.00					
	1-Nov-00	300	120	190	<0.05	<0.1	<2.0					
MW-11 field	1-Nov-00				0.01	0.00	-1.00			5.83	20.13	1
	31-Jan-01	330	130	150	<0.05	<0.1	<2.0					
MW-11 field	31-Jan-01									6.35	13.67	1
	26-Apr-01				0.01					5.67	18.00	1210
	26-Jul-01				0.00	0.02				6.02	19.85	1120
	19-Oct-01	NM	NM	NM	0.00	NM	NM	NM	NM	6.41	21.25	130
	31-Jan-02	NM	NM	NM	0.05	0.04	NM	NM	NM	6.60	18.50	1090
	16,17-Apr-02	NM	NM	NM	0.00	0.00	NM	NM	NM	5.87	18.70	1150
	17,18-Jul-02	NM	NM	NM	0.00	0.02	NM	NM	NM	6.27	18.37	1180
	23-Oct-02	NM	NM	NM	0.00	0.04	NM	NM	NM	6.62	20.81	1220
	18-Feb-03	NM	NM	NM	0.00	0.04	NM	NM	NM	6.49	19.50	1170
	30-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	6.92	19.70	941
	29-Jan-04	NM	NM	NM	0.00	1.80	NM	NM	NM	6.61	19.00	1000
	3-Aug-04	NM	NM	NM	0.00	0.00	NM	NM	NM	8.86	21.70	825
	1-Feb-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.43	20.55	856
	5-Jul-05	NM	NM	NM	0.13	0.00	NM	<0.005	<0.005	6.16	20.25	1130
	5-Jan-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.39	20.61	817
	5-Jul-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.61	19.10	1120
	28-Feb-07	NM	NM	NM	0.74	0.000	NM	<0.005	<0.005	6.71	16.34	1100
	22-Aug-07	NM	NM	NM	0.01	0.000	NM	<0.005	<0.005	5.46	19.97	865
	19-Feb-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.51	19.36	1081
	22-Aug-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.61	22.07	676
	10-Feb-09	**NM**	**NM**	**NM**	**0.23**	**0.007**	**NM**	**NM**	**NM**	**6.39**	**21.73**	**1130**

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
Monitoring Wells Installed by LFR												
LFR-1	11-Aug-00	250	110					<0.0005	<0.0005	6.97	19.73	936
LFR-1 field	09-Aug-00			51		0.02	-1.00					
	30-Oct-00	240	100	25	<0.05	<0.1	<2					
LFR-1 field/sp	30-Oct-00				0.01/0.01	0.031/0.036	0.001/0.001			6.38	17.94	697
LFR-1-spl	30-Oct-00	220	100	40	<0.05	<0.1	<2					
	29-Jan-01	150	76	28	<0.05	<0.1	<2					
LFR-1 field	29-Jan-01				0.00	0.04				6.82	15.00	870
LFR-1 Dup	29-Jan-01	150	75	26	<0.05	<0.1	<2					
	26-Apr-01				0.00					5.76	16.80	980
	26-Jul-01				0.05	0.01				6.48	19.38	772
	26-Jul-01	NM	NM	NM	0.42	NM	NM	NM	NM	6.73	20.83	661
	31-Jan-02	NM	NM	NM	0.03	0.01	NM	NM	NM	6.50	16.50	879
	16,17-Apr-02	NM	NM	NM	0.75	0.02	NM	NM	NM	5.88	16.37	1120
	17,18-Jul-02	NM	NM	NM	0.22	0.01	NM	NM	NM	6.40	17.02	832
	23-Oct-02	NM	NM	NM	0.30	0.00	NM	NM	NM	6.54	20.09	803
	18-Feb-03	NM	NM	NM	0.40	0.00	NM	NM	NM	6.47	16.90	607
	30-Jul-03	NM	NM	NM	0.02	0.00	NM	NM	NM	6.92	19.20	1330
	29-Jan-04	NM	NM	NM	0.00	5.10	NM	NM	NM	6.62	18.00	830
	4-Aug-04	NM	NM	NM	0.47	0.00	NM	NM	NM	6.39	19.01	1260
	2-Jan-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.73	17.80	744
	6-Jul-05	NM	NM	NM	0.09	0.002	NM	<0.005	<0.005	6.69	18.26	1360
	6-Jan-06	NM	NM	NM	0.03	0.000	NM	<0.005	<0.005	6.31	19.06	1260
	6-Jul-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.59	17.10	1270
	1-Mar-07	NM	NM	NM	0.45	0.000	NM	<0.005	<0.005	6.15	14.51	787
	23-Aug-07	NM	NM	NM	0.22	0.011	NM	<0.005	<0.005	5.45	19.42	642
	19-Feb-08	NM	NM	NM	0.08	0.000	NM	NM	NM	6.50	17.29	690
	22-Aug-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.50	21.13	432
	9-Feb-09	**NM**	**NM**	**NM**	**0.00**	**0.000**	**NM**	**NM**	**NM**	**6.32**	**16.20**	**482**
LFR-2	11-Aug-00	590	33	174				<0.0005	0.00	7.15	19.87	1088
LFR-2 field	11-Aug-00				2.95	-1.00	0.01					
	02-Nov-00	550	40	180	6.20	<0.1	<2					
LFR-2 field	02-Nov-00				7.45	0.01	0.00			6.19	19.67	1306
	30-Jan-01	480	21	130	4.60	<0.1	<2					
LFR-2 field	30-Jan-01				1.04	0.01				6.60	12.73	945
	27-Apr-01				2.97					5.64	16.40	921
	26-Jul-01				4.60	0.01				6.31	18.66	970
	18-Oct-01	NM	NM	NM	8.20	NM	NM	NM	NM	6.78	19.56	109

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
LFR-2 cont.	31-Jan-02	NM	NM	NM	1.97	0.05	NM	NM	NM	6.50	16.60	644
	16,17-Apr- 02	NM	NM	NM	7.60	0.06	NM	NM	NM	6.19	16.43	845
	17,18-Jul-02	NM	NM	NM	8.80	0.00	NM	NM	NM	6.52	16.24	986
	23-Oct-02	NM	NM	NM	3.30	0.06	NM	NM	NM	6.84	18.09	812
	18-Feb-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.50	16.90	617
	30-Jul-03	NM	NM	NM	3.30	0.00	NM	NM	NM	7.15	17.30	861
	29-Jan-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	4-Aug-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.76	17.39	795
	1-Feb-05	NM	NM	NM	2.25	0.00	NM	NM	NM	6.46	17.68	559
	5-Jul-05	NM	NM	NM	3.30	0.00	NM	<0.005	<0.005	6.56	18.18	712
	5-Jan-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.58	18.23	721
	6-Jul-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.91	17.90	679
	28-Feb-07	NM	NM	NM	3.30	0.000	NM	<0.025	<0.025	6.41	16.54	782
	22-Aug-07	NM	NM	NM	3.30	0.000	NM	<0.025	<0.025	6.05	17.60	814
	20-Feb-08	NM	NM	NM	1.77	0.000	NM	NM	NM	6.58	17.52	616
	21-Aug-08	NM	NM	NM	3.30	0.092	NM	NM	NM	6.68	23.60	610
	10-Feb-09	**NM**	**NM**	**NM**	**3.30**	**0.009**	**NM**	**NM**	**NM**	**6.53**	**17.41**	**980**
LFR-3	10-Aug-00	310	85	162	<0.1	0.15	0.04	<0.0005	<0.0005	6.57	19.92	951
LFR-3 split	10-Aug-00	300	85	152				<0.0005	<0.0005			
LFR-3 field	10-Aug-00					0.06	-1.00					
	01-Nov-00	350	66	160	<0.05	<0.1	<2					
LFR-3 field	01-Nov-00				0.01	0.01	0.00			6.16	17.71	1164
	30-Jan-01	250	31	71	<0.05	<0.1	<2					
LFR-3 field	30-Jan-01				0.03					6.64	17.29	541
	11-Jun-01				0.01					5.43	18.00	613
	26-Jul-01				0.70	0.03				6.25	20.50	602
	18-Oct-01	NM	NM	NM	0.12	NM	NM	NM	NM	6.50	21.39	645
	31-Jan-02	NM	NM	NM	0.06	0.02	NM	NM	NM	6.30	19.10	566
	16,17-Apr-02	NM	NM	NM	1.20	0.04	NM	NM	NM	5.78	18.68	566
	17,18-Jul-02	NM	NM	NM	0.08	0.01	NM	NM	NM	6.17	18.42	585
	23-Oct-02	NM	NM	NM	1.35	0.00	NM	NM	NM	6.32	20.65	457
	19-Feb-03	NM	NM	NM	0.74	0.00	NM	NM	NM	6.34	19.30	497
	30-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	6.87	19.80	457
	29-Jan-04	NM	NM	NM	1.70	0.00	NM	NM	NM	6.60	20.00	393
	3-Aug-04	NM	NM	NM	0.34	0.00	NM	NM	NM	6.24	19.96	415
	2-Feb-05	NM	NM	NM	0.12	0.00	NM	NM	NM	6.17	20.06	381
	5-Jul-05	NM	NM	NM	3.30	0.205	NM	<0.005	<0.005	6.39	20.01	463
	9-Dec-05	NM	NM	NM	NM	NM	NM	<0.005	<0.005	NM	NM	NM
	6-Jan-06	NM	NM	NM	2.16	0.001	NM	<0.005	<0.005	6.27	20.42	461
	5-Jul-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.56	20.10	640
	1-Mar-07	NM	NM	NM	1.03	0.005	NM	<0.005	<0.005	6.17	17.44	514
	22-Aug-07	NM	NM	NM	0.84	0.000	NM	<0.005	<0.005	5.45	20.36	547
	20-Feb-08	NM	NM	NM	0.20	0.000	NM	NM	NM	6.38	19.55	607
	22-Aug-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.63	21.09	406
	9-Feb-09	**NM**	**NM**	**NM**	**0.00**	**0.002**	**NM**	**NM**	**NM**	**6.21**	**17.30**	**453**

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Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
LFR-4	11-Aug-00	630	71	161				<0.0005	<0.0005	6.90	20.11	1240
LFR-4 FB	10-Aug-00							<0.0005	<0.0005			
LFR-4 field	11-Aug-00				0.22	0.02	0.00					
	31-Oct-00	490	28	130	1.00	<0.1	<2					
LFR-4 field	31-Oct-00				0.67	0.02	0.00			6.21	18.11	830
	01-Feb-01	460	25	120	1.30	<0.1	<2					
LFR-4 field	01-Feb-01				1.43	0.02				6.55	15.28	916
	27-Apr-01				1.44					5.79	18.30	1060
	26-Jul-01				0.95	0.00				6.26	19.23	866
	16,17-Apr-02	NM	NM	NM	5.10	0.03	NM	NM	NM	6.19	18.04	925
	17,18-Jul-02	NM	NM	NM	>3.3	0.01	NM	NM	NM	5.92	17.28	878
	23-Oct-02	NM	NM	NM	3.30	0.00	NM	NM	NM	6.69	19.90	602
	19-Feb-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.38	19.10	994
	29-Jul-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.94	19.00	994
	29-Jan-04	NM	NM	NM	0.71	0.00	NM	NM	NM	6.53	19.50	689
	5-Jul-05	NM	NM	NM	3.30	0.00	NM	<0.005	<0.005	6.49	19.20	772
	5-Jan-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	5-Jul-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.75	18.90	912
	1-Mar-07	NM	NM	NM	3.30	0.000	NM	<0.01	<0.01	6.46	15.75	972
	22-Aug-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	19-Feb-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	21-Aug-08	NM	NM	NM	3.30	0.00	NM	NM	NM	6.13	21.38	353
	10-Feb-09	**NM**	**NM**	**NM**	**3.30**	**0.00**	**NM**	**NM**	**M**	**6.38**	**20.16**	**591**
Monitoring Wells Installed by SOMA												
SOMA-1	19-Oct-01	NM	NM	NM	0.75	NM	NM	NM	NM	6.77	18.15	146
	31-Jan-02	NM	NM	NM	0.00	0.00	NM	NM	NM	6.70	17.50	1160
	16,17-Apr-02	NM	NM	NM	0.17	0.03	NM	NM	NM	6.01	17.98	1280
	17,18-Jul-02	NM	NM	NM	0.11	0.01	NM	NM	NM	6.52	16.21	1270
	23-Oct-02	NM	NM	NM	0.24	0.01	NM	NM	NM	6.60	17.77	1270
	19-Feb-03	NM	NM	NM	0.00	0.01	NM	NM	NM	6.33	17.40	1350
	30-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	6.90	17.80	1300
	29-Jan-04	NM	NM	NM	2.10	0.00	NM	NM	NM	6.51	17.60	959
	3-Aug-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.42	17.89	956
	1-Feb-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.26	17.70	985
	5-Jul-05	NM	NM	NM	0.19	0.00	NM	<0.005	<0.005	6.36	19.36	1220
	5-Jan-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.54	18.02	926
	5-Jul-06	NM	NM	NM	0.30	0.011	NM	<0.005	<0.005	6.68	18.40	1150
	28-Feb-07	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.10	17.17	1140
	22-Aug-07	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	5.73	17.75	939
	20-Feb-08	NM	NM	NM	0.00	0.006	NM	NM	NM	6.53	17.93	791
	21-Aug-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.21	19.33	834
	10-Feb-09	**NM**	**NM**	**NM**	**0.28**	**0.011**	**NM**	**NM**	**NM**	**6.42**	**19.31**	**779**

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
SOMA-2	19-Oct-01	NM	NM	NM	44.00	NM	NM	NM	NM	6.87	16.93	122
	31-Jan-02	NM	NM	NM	10.50	0.34	NM	NM	NM	6.90	15.20	1140
	16,17-Apr-02	NM	NM	NM	8.70	0.01	NM	NM	NM	6.30	15.25	1170
	17,18-Jul-02	NM	NM	NM	>3.3	0.00	NM	NM	NM	6.86	14.19	1170
	23-Oct-02	NM	NM	NM	3.30	0.00	NM	NM	NM	6.97	16.47	1380
	19-Feb-03	NM	NM	NM	2.93	0.01	NM	NM	NM	6.86	15.70	1420
	29-Jul-03	NM	NM	NM	1.37	0.00	NM	NM	NM	7.91	16.80	1290
	28-Jan-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.65	16.60	835
	4-Aug-04	NM	NM	NM	0.34	0.00	NM	NM	NM	6.78	16.76	1180
	2-Feb-05	NM	NM	NM	3.30	0.00	NM	NM	NM	6.52	15.96	1310
	6-Jul-05	NM	NM	NM	3.30	0.00	NM	<0.005	<0.005	6.64	16.12	1290
	9-Jan-06	NM	NM	NM	3.30	0.001	NM	<0.005	<0.005	6.92	16.30	982
	6-Jul-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	7.08	16.00	1170
	1-Mar-07	NM	NM	NM	3.30	0.000	NM	<0.025	<0.025	7.24	10.16	1288
	23-Aug-07	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.20	15.98	764
	20-Feb-08	NM	NM	NM	3.30	0.000	NM	NM	NM	6.85	13.37	1434
	21-Aug-08	NM	NM	NM	3.30	0.000	NM	NM	NM	7.19	17.59	834
	10-Feb-09	**NM**	**NM**	**NM**	**3.30**	**0.000**	**NM**	**NM**	**NM**	**6.86**	**19.33**	**912**
SOMA-3	19-Oct-01	NM	NM	NM	0.40	NM	NM	NM	NM	6.91	17.09	158
	31-Jan-02	NM	NM	NM	0.78	0.38	NM	NM	NM	6.50	14.90	1320
	16,17-Apr-02	NM	NM	NM	1.03	0.00	NM	NM	NM	6.23	15.83	1260
	17,18-Jul-02	NM	NM	NM	>3.3	0.00	NM	NM	NM	6.77	15.03	1290
	23-Oct-02	NM	NM	NM	3.30	0.03	NM	NM	NM	7.02	16.44	970
	19-Feb-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.87	15.80	1350
	29-Jul-03	NM	NM	NM	3.30	0.00	NM	NM	NM	7.27	16.20	1200
	29-Jan-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.75	16.20	925
	4-Aug-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.79	16.43	956
	2-Feb-05	NM	NM	NM	0.15	0.00	NM	NM	NM	6.62	16.64	968
	6-Jul-05	NM	NM	NM	1.12	0.00	NM	<0.005	<0.005	6.56	16.79	935
	6-Jan-06	NM	NM	NM	0.49	0.000	NM	<0.005	<0.005	6.38	16.84	1120
	6-Jul-06	NM	NM	NM	0.53	0.000	NM	<0.005	<0.005	7.11	16.00	1020
	1-Mar-07	NM	NM	NM	0.69	0.000	NM	<0.005	<0.005	6.78	14.34	528
	23-Aug-07	NM	NM	NM	1.20	0.000	NM	<0.005	<0.005	6.45	17.13	495
	20-Feb-08	NM	NM	NM	3.21	0.158	NM	NM	NM	6.98	14.19	31
	21-Aug-08	NM	NM	NM	0.27	0.000	NM	NM	NM	6.62	19.87	341
	10-Feb-09	**NM**	**NM**	**NM**	**0.90**	**0.008**	**NM**	**NM**	**NM**	**6.75**	**16.30**	**1149**
SOMA-4	Oct-19-01	NM	NM	NM	0.26	NM	NM	NM	NM	6.53	16.88	145
	23-Oct-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	19-Feb-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	29-Jul-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	5-Jul-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	5-Jan-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10-Feb-09	**NM**	**NM**	**NM**	**3.10**	**0.003**	**NM**	**NM**	**NM**	**6.61**	**19.42**	**1071**

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
SOMA-5	4-Aug-04	NM	NM	NM	3.30	0.00	NM	NM	NM	7.14	16.98	773
	2-Feb-05	NM	NM	NM	3.30	0.00	NM	NM	NM	7.20	15.99	549
	6-Jul-05	NM	NM	NM	3.30	0.00	NM	<0.005	<0.005	6.75	16.99	1150
	9-Jan-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.78	16.72	1200
	6-Jul-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	7.81	16.30	454
	1-Mar-07	NM	NM	NM	NM	NM	NM	<0.025	<0.025	NM	NM	NM
	23-Aug-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	20-Feb-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	21-Aug-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10-Feb-09	**NM**	**NM**	**NM**	**3.30**	**0.000**	**NM**	**NM**	**NM**	**7.07**	**15.80**	**538**

Notes
Samples with "field" in the well ID indicate that the results are from field measurements obtained using a Hach spectrometer or a Hydrolab Quanta flow-through instrument.
since April 2001, field measurements have been performed using a Hach Calorimeter
NM= not measured

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE in Groundwater Samples
Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)
Temporary Sampling Points Installed by Geosolv, LLC								
B-2	24-Jan-00	20 J	31 YJ	<0.05	<0.013	<0.013	0.11 C	0.22 C
B-3	24-Jan-00	4.9 J	8.8 YJ	<0.01	0.0048	<0.0025	<0.0025	0.0714
B-7	24-Jan-00	19	30 J	<0.05	<0.013	0.062	<0.013	0.207
	11-Aug-00	3.7 J	6.8 YHJ	0.02	0.0077 J	0.047 J	0.007 J	0.065 CJ
	31-Oct-00	62 J	98 YHJ	0.01 J	0.0091 J	0.061 J	<0.0005	0.237 J
	27-Jul-01	2.5	5.2 HY	0.0057	0.0070	0.051	0.0082	0.0740
	31-Jan-01	5.3	7.9	0.0100	0.0089	0.059	0.0097	0.0870
	26-Apr-01	4.5	8.9 H	0.0069	0.0110	0.071	0.077 C	0.2080
B-8	24-Jan-00	11 J	19 YJ	<0.01	<0.0025	<0.0025	<0.0025	0.17 C
B-9	24-Jan-00	1 YJ	1.8 YHJ	<0.002	<0.0005	<0.0005	0.01 C	0.0089 C
B-10	24-Jan-00	2.4 Y	4.2	0.0140 c	0.0072	0.027	0.025 C	0.032
	10-Aug-00	2.8 Y	6.1 Y	0.1600	0.0073	0.012	<0.005	0.0241
	31-Oct-00	2.2 YZ	3.5 Z	<0.002	0.0038	0.011	<0.0005	0.0182
	27-Jul-01	1.7	3.6 H	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	31-Jan-01	2.4 Z	3.6 HYZ	<0.002	0.0031	0.010	0.00076 c	0.0197
	26-Apr-01	2.4 Z	4.7 Z	0.0025	0.0041	0.013	ND	0.0290
	6-Jul-05	3.4 H	4.5 HY	<0.1	<0.1	<0.1	<0.1	<0.1
	9-Jan-06	11 Y	15	<0.1	<0.1	<0.1	<0.1	<0.1
	6-Jul-06	1.3	2.2 HY	<0.1	<0.1	<0.1	<0.1	<0.1
	1-Mar-07	0.5 L	0.810 HY	<0.1	<0.1	<0.1	<0.1	<0.1
	23-Aug-07	NA	NA	NA	NA	NA	NA	NA
	20-Feb-08	860	1,100 Y	<0.25	<0.25	<0.25	<0.25	<0.25
	25-Mar-08	2,000	43 Yb	<0.36	<0.36	0.75	0.42	2.12
	21-Aug-08	760	1,200 Y	<0.083	<0.083	<0.083	<0.083	<0.083
	10-Feb-09	**1.5**	**2.3 Y**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**
B-13	24-Jan-00	1.7 J	3 YJ	<0.01	<0.0025	<0.0025	<0.0025	0.0200
Temporary Sampling Points Installed by LFR								
GW-2	19-Jul-99	<0.05	<0.05	0.0025	<0.0005	0.00071	<0.0005	0.00074
	20-Jan-00	0.15	0.25 Y	0.0044	<0.0005	<0.0005	0.00097 C	0.0013
	28-Apr-00	<0.05	0.095 YZ	<0.0021	<0.0005	<0.0005	<0.0005	<0.0005
	2-Nov-00	<0.05	<0.05	<0.0020	<0.0005	<0.0005	<0.0005	<0.0005
	1-Feb-01	<0.05	ND	<0.0020	<0.0005	<0.0005	<0.0005	<0.0005
	27-Apr-01	<0.05	0.086 YZ	0.0022	<0.0005	0.0240	<0.0005	<0.0005
	27-Jul-01	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	19-Oct-01	<0.05	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE in Groundwater Samples
Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)
GW-2 cont.	31-Jan-02	<0.05	<0.05	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]
	16,17-Apr-02	<0.05	<0.05	<0.0020	<0.0005	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	22-Oct-02	<0.05	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	19-Feb-03	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jul-03	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	28-Jan-04	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	4-Aug-04	0.054 [YZ]	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	2-Feb-05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	6-Jul-05	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jan-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jul-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	28-Feb-07	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-07	NA	NA	NA	NA	NA	NA	NA
	20-Feb-08	NA	NA	NA	NA	NA	NA	NA
	22-Aug-08	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9-Feb-09	**<0.05**	**<0.05**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**
GW-3	19-Jul-99	0.070 [Z]	0.100 [Z]	<0.0020	<0.0005	<0.0005	<0.0005	0.00064
	20-Jan-00	0.15	0.260 [Y]	<0.0020	<0.0005	<0.0005	<0.0005	0.00130 [C]
	27-Apr-00	0.20 [YZ]	0.380 [YZ]	<0.0020	<0.0005	<0.0005	<0.0005	<0.00050
	27-Apr-00	0.30 [Z]	0.570 [YZ]	<0.0020	<0.0005	<0.0005	<0.0005	<0.00050
	11-Aug-00	<0.05	0.077 [YZ]	<0.0020	<0.0005	<0.0005	<0.0005	0.00051
	2-Nov-00	<0.05	0.050 [YZ]	0.0026	<0.0005	<0.0005	<0.0005	<0.00050
	1-Feb-01	<0.05	<0.05	<.0020	<.0005	<0.0005	<0.0005	<0.00050
	27-Apr-01	<0.05	0.062 [YZ]	0.0056	<0.0005	<0.0005	<0.0005	<0.00050
	27-Jul-01	<0.05	<0.05	0.0008	<0.0005	<0.0005	<0.0005	<0.00050
	19-Oct-01	0.054	0.11	<0.0100	<0.0100	<0.0100	<0.0100	<0.02000
	31-Jan-02	<0.05	0.070 [YZ]	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.00500 [b]
	16,17-Apr-02	<0.05	0.055 [YZ]	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	22,23-Oct-02	0.11 [YZ]	0.140 [YZ]	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071
	19-Feb-03	0.068 [YZ]	0.100 [YZ]	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jul-03	0.120 [YZ]	0.180 [YZ]	<0.010	<0.010	<0.010	<0.010	<0.010
	28-Jan-04	0.051 [YZ]	0.086 [YZ]	<0.005	<0.005	<0.005	<0.005	<0.005
	3-Aug-04	0.170 [YZ]	0.150 [YZ]	<0.017	<0.017	<0.017	<0.017	<0.017
	2-Feb-05	0.190 [Z]	0.250 [HYZ]	<0.031	<0.031	<0.031	<0.031	<0.031
	6-Jul-05	0.084 [YZ]	0.11 [YZ]	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	6-Jan-06	0.063 [YZ]	0.088 [YZ]	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jul-06	0.091 [YZ]	.140 [YZ]	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	1-Mar-07	0.088 [YZ]	0.140 [YZ]	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
	23-Aug-07	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	20-Feb-08	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-08	0.079 [Y]	0.120 [YZ]	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9-Feb-09	**0.070 [Y]**	**0.084 [YZ]**	**<0.0025**	**<0.0025**	**<0.0025**	**<0.0025**	**<0.0025**

Table 4
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Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)
GW-4	21-Jul-99	6.80 J	10 YHJ	0.0022	<0.0005	<0.0005	<0.0005	0.0029 J
	20-Jan-00	0.97 J	1.60 YJ	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Split	20-Jan-00	0.85 J	1.50 YJ	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	27-Apr-00	0.31	0.60 Y	<0.0020	<0.0005	<0.0005	<0.0005	0.0027
	30-Jan-01	0.39	0.58 HY	<0.0020	<0.0005	<0.0005	<0.0005	<0.0005
	27-Jul-01	0.42	0.86 HY	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	19-Oct-01	0.83	1.60	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
	31-Jan-02	0.92	1.70 HY	<0.0050 b	<0.0050 b	<0.0050 b	<0.0050 b	<0.0050 b
	16,17-Apr-02	0.40	0.67 HY	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	0.97	1.7 HY	<0.005	<0.005	<0.005	<0.005	<0.005
	22,23-Oct-02	0.55	0.700 HY	<0.005	<0.005	<0.005	<0.005	<0.005
	19-Feb-03	0.58	0.880 HY	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	0.39	0.580 HY	<0.005	<0.005	<0.005	<0.005	<0.005
	28-Jan-04	0.31	0.520 HY	<0.005	<0.005	<0.005	<0.005	<0.005
	3-Aug-04	0.71	0.640 HY	<0.005	<0.005	<0.005	<0.005	<0.005
	1-Feb-05	0.28	0.370 HY	<0.005	<0.005	<0.005	<0.005	<0.005
	6-Jul-05	0.12	0.16 HY	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jan-06	0.54	0.75 HY	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	28-Feb-07	0.56	0.90 HY	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-07	NA	NA	NA	NA	NA	NA	NA
	20-Feb-08	0.50	0.63 Y	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	21-Aug-08	NA	NA	NA	NA	NA	NA	NA
	10-Feb-09	**0.49**	**0.58 Y**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**
GW-5	27-Aug-99	<0.05	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001
	20-Jan-00	<0.05	0.057 Y	0.0007	<0.0005	<0.0005	<0.0005	<0.0005
	27-Apr-00	0.05 Y	0.096 Y	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
GW-6A	27-Aug-99	<0.05	0.054 Y	0.0089	<0.0005	<0.0005	<0.0005	<0.0005
Split	27-Aug-99	<0.05	0.057 Y	0.0087	<0.0005	<0.0005	<0.0005	<0.0005
	25-Jan-00	<0.05	<0.05	0.0022	<0.0005	<0.0005	<0.0005	<0.0005
	27-Apr-00	<0.05	0.087 Y	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
GW-7	15-Jul-99	NA	NA	<0.0025	0.05 J	<0.0005	0.000727	0.00313 J
Split	15-Jul-99	NA	NA	NA	NA	NA	NA	NA
	15-Jul-99	NA	NA	NA	0.0567 J	<0.002	<0.002	<0.002
Split	15-Jul-99	NA	NA	NA	0.0755 J	<0.002	<0.002	<0.002
GW-8	19-Jul-99	<0.05	<0.05	0.0078	<0.0005	0.00064	<0.0005	0.00151
	20-Jan-00	0.19	0.33 Y	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
Split	20-Jan-00	0.20	0.37 Y	<0.002	0.00058	<0.0005	<0.0005	<0.0005
	28-Apr-00	0.064 YZ	0.12 YZ	0.013	<0.0005	<0.0005	<0.0005	<0.0005

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE in Groundwater Samples
Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)
Monitoring Wells Owned by TOSCO								
MW-11	25-Jan-00	< 0.05	<0.05	0.0090	<0.0005	<0.0005	<0.0005	<0.0005
	28-Apr-00	<0.05	<0.05	<0.0087	<0.0005	<0.0005	<0.0005	<0.0005
	10-Aug-00	<0.05	<0.05	0.0110	<0.0005	<0.0005	<0.0005	<0.0005
	1-Nov-00	<0.05	<0.05	0.0068	<0.0005	<0.0005	<0.0005	<0.0005
	31-Jan-01	< 0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	27-Jul-01	<0.05	0.10 [HY]	0.0010	<0.0005	<0.0005	<0.0005	0.0007
	19-Oct-01	<0.05	<0.05	<0.0050	<0.0050	<0.005	<0.005	<0.010
	31-Jan-02	<0.05	0.071 [Y]	<0.0050 [b]	<0.0050 [b]	<0.005 [b]	<0.005 [b]	<0.005 [b]
	16,17-Apr-02	<0.05	<0.05	<0.0020	<0.0005	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	22,23-Oct-02	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	18-Feb-03	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	28-Jan-04	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	3-Aug-04	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	1-Feb-05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	5-Jul-05	<0.05	<0.05	0.0008	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jan-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jul-06	<0.05	<0.05	0.001	<0.0005	<0.0005	<0.0005	<0.0005
	28-Feb-07	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-07	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	19-Feb-08	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-08	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	10-Feb-09	**<0.05**	**<0.05**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**
Monitoring Wells Installed by LFR								
LFR-1	9-Aug-00	0.53	1.2	0.0095	<0.0005	<0.0005	<0.0005	<0.0005
	30-Oct-00	0.24 [YZ]	0.37 [YZ]	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
Split	30-Oct-00	0.24 [YZ]	0.37 [YZ]	0.0043	<0.0005	<0.0005	<0.0005	<0.0005
	29-Jan-01	0.21 [YZ]	0.31 [YZ]	0.0033	<0.0005	<0.0005	<0.0005	<0.0005
	26-Apr-01	0.092	0.18 [YZ]	0.0044	<0.0005	0.002	<0.0005	<0.0005
	27-Jul-01	0.086	0.18 [YZ]	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	18-Oct-01	0.19	0.38	<0.031	<0.031	<0.031	<0.031	<0.062
	31-Jan-02	0.15 [YZ]	0.27 [YZ]	<0.013 [b]	<0.013 [b]	<0.013 [b]	<0.013 [b]	<0.013 [b]
	16,17-Apr-02	0.10 [YZ]	0.17 [YZ]	< 0.013	<0.0005	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	0.084 [YZ]	0.14 [YZ]	<0.013	<0.013	<0.013	<0.013	<0.013
	22,23-Oct-02	<0.05	0.078 [YZ]	<0.005	<0.005	<0.005	<0.005	<0.005
	18-Feb-03	0.076 [YZ]	0.110 [YZ]	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	<0.05	0.068 [YZ]	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jan-04	0.060 [YZ]	0.100 [YZ]	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063
	4-Aug-04	<0.05	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005
	2-Feb-05	<0.05	0.056 [YZ]	<0.005	<0.005	<0.005	<0.005	<0.005
	6-Jul-05	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jan-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jul-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1-Mar-07	<0.05	0.053 [YZ]	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	23-Aug-07	0.070 [YZ]	0.120 [YZ]	0.0008	<0.0005	<0.0005	<0.0005	<0.0005
	19-Feb-08	0.062 [Y]	0.077 [Y]	<0.001	<0.001	<0.001	<0.001	0.0033
	22-Aug-08	<0.05	0.059 [YZ]	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9-Feb-09	**0.057 [Y]**	**0.067 [YZ]**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE in Groundwater Samples
Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)
LFR-2	11-Aug-00	0.59	1.10 [YH]	0.0022	0.0018	<0.0005	<0.0005	0.0013 [C]
	2-Nov-00	0.38	0.70 [YH]	0.003	0.0035	0.0011	0.0042	0.01184 [C]
	30-Jan-01	0.36	0.54 [HY]	0.0034	0.00057	<0.0005	<0.0005	<0.0005
	27-Apr-01	0.33	0.66 [HY]	<0.002	<0.0005	0.0013	<0.0005	<0.0005
	27-Apr-01	0.36	0.72 [HY]	<0.002	0.00059	0.0019	<0.0005	0.013
	27-Jul-01	0.33	0.76 [HY]	<0.0005	0.0013	<0.0005	<0.0005	0.0006
	18-Oct-01	0.73	1.50	<0.0071	<0.0071	<0.0071	<0.0071	<0.0142
	31-Jan-02	0.76	1.40 [HY]	<0.005 [b]	<0.005 [b]	<0.005 [b]	<0.005 [b]	<0.005 [b]
	16,17-Apr-02	1.10	1.90 [HY]	<0.002	<0.0005	<0.0005	<0.0005	0.019 [C]
	17,18-Jul-02	0.97	1.7 [HY]	<0.005	<0.005	<0.005	<0.005	<0.005
	22,23-Oct-02	3.10	5.000 [HY]	<0.005	<0.005	<0.005	<0.005	<0.005
	18-Feb-03	1.50	2.300 [HY]	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	4.10	6.000 [HY]	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jan-04	NA	NA	NA	NA	NA	NA	NA
	4-Aug-04	2.50	2.2 [HY]	<0.005	<0.005	<0.005	<0.005	<0.005
	1-Feb-05	1.10	1.5 [HY]	<0.005	<0.005	<0.005	<0.005	<0.005
	5-Jul-05	0.95	1.3 [HY]	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jan-06	4.00	5.6 [HY]	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jul-06	0.49	0.770 [HY]	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	28-Feb-07	1.20	1.9 [HY]	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-07	3.70	6.4 [HY]	<0.0005	0.0022	<0.0005	<0.0005	<0.0005
	20-Feb-08	73	92 [Y]	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	21-Aug-08	15	23 [Y]	<0.0083	0.0059	0.0017	<0.0005	<0.0005
	10-Feb-09	**3.4**	**4.0 [Y]**	**<0.0017**	**0.0027**	**<0.0017**	**<0.0017**	**<0.0017**
LFR-3	10-Aug-00	<0.05	<0.05	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
Split	10-Aug-00	<0.05	<0.05	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	1-Nov-00	<0.05	<0.05	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	30-Jan-01	<0.05	<0.05	0.0036	<0.0005	<0.0005	<0.0005	<0.0005
	27-Apr-01	<0.05	<0.05	0.0024	<0.0005	0.0054	<0.0005	<0.0005
	27-Jul-01	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	18-Oct-01	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.01
	31-Jan-02	<0.05	0.067 [Y]	<0.005 [b]	<0.005 [b]	<0.005 [b]	<0.005 [b]	<0.005 [b]
	16,17-Apr-02	<0.05	<0.05	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	22,23-Oct-02	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	19-Feb-03	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jan-04	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	3-Aug-04	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	2-Feb-05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	5-Jul-05	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9-Dec-05	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jan-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jul-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1-Mar-07	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-07	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	20-Feb-08	<0.05	0.053 [Y]	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-08	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9-Feb-09	**<0.05**	**<0.05**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**

Table 4
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3815 Broadway, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)
LFR-4	11-Aug-00	0.22 [Y]	0.41 [Y]	0.0051	0.01100	<0.0005	<0.0005	0.00162 [C]
	31-Oct-00	0.17 [Y]	0.27	0.0065	0.00084	<0.0005	<0.0005	<0.0005
	1-Feb-01	0.16 [Y]	0.22	0.0097	0.00330	<0.0005	<0.0005	<0.0005
	27-Apr-01	0.22 [Y]	0.44	0.0058	0.02700	0.0036	<0.0005	<0.0005
	27-Jul-01	0.091 [Y]	0.19	0.011	0.00090	<0.0005	<0.0005	<0.0005
	31-Jan-02	NA	NA	NA	NA	NA	NA	NA
	16,17-Apr-02	0.40 [Y]	0.67	< 0.005	0.05300	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	0.21 [Y]	0.36 [Y]	0.0075	0.007	<0.005	<0.005	<0.005
	22,23-Oct-02	0.110 [Y]	0.17	0.0080	<0.005	<0.005	<0.005	<0.005
	19-Feb-03	0.490 [Y]	0.740	<0.005	0.055	<0.005	<0.005	<0.005
	30-Jul-03	0.400 [Y]	0.59	<0.005	0.010	<0.005	<0.005	<0.005
	29-Jan-04	0.42 [Y]	0.700 [Y]	<0.005	0.011	<0.005	<0.005	<0.005
	4-Aug-04	NA	NA	NA	NA	NA	NA	NA
	5-Jul-05	0.510 [Y]	0.68	0.0049	0.024	<0.0005	<0.0005	<0.0005
	5-Jul-06	0.650 [Y]	1.10	0.0081	0.059	<0.0005	0.0081	0.006
	1-Mar-07	0.370 [Y]	0.590 [H]	0.006	0.0063	<0.0005	<0.0005	<0.0005
	22-Aug-07	NA	NA	NA	NA	NA	NA	NA
	20-Feb-08	NA	NA	NA	NA	NA	NA	NA
	21-Aug-08	0.990 [Y]	1.50 [Y]	0.0029	0.0009	<0.0005	<0.0005	<0.0005
	10-Feb-09	**1.20 [Y]**	**1.40 [Y]**	**0.0025**	**0.0021**	**<0.0005**	**<0.0005**	**<0.0005**
Monitoring Wells Installed by SOMA								
SOMA-1	19-Oct-01	0.22	0.44	0.034	<0.0050	<0.0050	<0.0050	<0.0100
	31-Jan-02	0.058	0.100 [HY]	0.110 [b]	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]
	16,17-Apr-02	<0.05	0.052 [Y]	0.120	0.0008	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	<0.05	<0.05	0.120	<0.005	<0.005	<0.005	<0.005
	22,23-Oct-02	<0.05	0.053	0.140	<0.005	<0.005	<0.005	<0.005
	19-Feb-03	<0.05	<0.05	0.150	<0.0071	<0.0071	<0.0071	<0.0071
	30-Jul-03	<0.05	<0.05	0.190	<0.005	<0.005	<0.005	<0.005
	29-Jan-04	<0.05	<0.05	0.190	<0.005	<0.005	<0.005	<0.005
	3-Aug-04	<0.05	<0.05	0.170	<0.013	<0.013	<0.013	<0.013
	1-Feb-05	<0.05	<0.05	0.200	<0.017	<0.017	<0.017	<0.017
	5-Jul-05	<0.05	<0.05	0.210	<0.0017	<0.0017	<0.0017	<0.0017
	5-Jan-06	<0.05	<0.05	0.270	0.0006	<0.0005	<0.0005	<0.0005
	5-Jul-06	<0.05	<0.05	0.310	<0.002	<0.002	<0.002	<0.002
	28-Feb-07	0.050 [YZ]	0.081 [YZ]	0.330	0.0025	<0.002	<0.002	<0.002
	22-Aug-07	<0.05	0.066 [YZ]	0.450	<0.002	<0.002	<0.002	<0.002
	20-Feb-08	<0.05	0.076 [Y]	0.340	<0.002	<0.002	<0.002	0.0084
	21-Aug-08	0.055 [Y]	0.084 [YZ]	0.390	<0.0025	<0.0025	<0.0025	<0.0025
	10-Feb-09	**0.057 [Y]**	**0.086 [YZ]**	**0.370**	**<0.0025**	**<0.0025**	**<0.0025**	**<0.0025**
SOMA-2	19-Oct-01	1.4	2.8	<0.250	<0.2500	<0.250	<0.250	<0.500
	31-Jan-02	1.3	2.4 [HY]	<0.071 [b]	<0.0710 [b]	<0.071 [b]	<0.071 [b]	<0.071 [b]
	16,17-Apr-02	1.3 [L]	2.2 [H]	< 0.130	0.0067	0.046	0.012	0.044
	17,18-Jul-02	2.6	4.4 [H Y]	<0.063	<0.063	<0.063	<0.063	<0.063
	22,23-Oct-02	0.37	0.600 [HY]	0.300	<0.0071	<0.0071	<0.0071	<0.0071
	19-Feb-03	0.30	0.460 [HY]	0.210	<0.017	<0.017	<0.017	<0.017
	29-Jul-03	0.27	0.400 [HY]	0.300	<0.020	<0.020	<0.020	<0.020

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Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)
SOMA-2 cont.	28-Jan-04	0.23	0.38 HY	0.270	<0.017	<0.017	<0.017	<0.017
	4-Aug-04	0.31	0.28 HY	0.280	<0.031	<0.031	<0.031	<0.031
	2-Feb-05	39	53 HY	<0.31	<0.31	<0.31	<0.31	<0.31
	6-Jul-05	5.10	6.8 HY	<0.025	<0.025	0.053	<0.025	0.031
	9-Jan-06	67	93 HY	<0.042	<0.042	0.054	<0.042	<0.042
	6-Jul-06	25	40 HY	<0.042	<0.042	0.061	<0.042	<0.042
	1-Mar-07	18	29 HY	<0.042	<0.042	0.055	<0.042	<0.042
	23-Aug-07	75	130 HY	<0.042	<0.042	0.081	<0.042	<0.042
	20-Feb-08	3.2	4.0 Y	<0.1	<0.1	<0.1	<0.1	<0.1
	25-Mar-08	360.0	270 Yb	<0.13	<0.13	0.180	<0.13	0.170
	21-Aug-08	3.8	5.7 Y	<0.0063	0.016	0.120	0.014	0.094
	10-Feb-09	**860.0**	**1,300 Y**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.05**
SOMA-3	19-Oct-01	0.42	0.83	0.65	<0.02500	<0.02500	<0.0250	<0.0500
	31-Jan-02	0.23	0.41 HY	0.31 b	<0.01300 b	<0.01300 b	<0.0130 b	<0.0130 b
	16,17-Apr-02	0.61	1.00 HY	0.42	0.00078	0.00068	<0.0005	<0.0005
	17,18-Jul-02	0.41	0.69 H Y	0.38	<0.017	<0.017	<0.017	<0.017
	22,23-Oct-02	3.00	4.700 HY	<0.17	<0.170	<0.170	<0.170	<0.170
	19-Feb-03	2.50	3.800 HY	<0.13	<0.130	<0.130	<0.130	<0.130
	29-Jul-03	2.10	3.100 HY	<0.13	<0.130	<0.130	<0.130	<0.130
	29-Jan-04	4.10	6.8 HY	<0.31	<0.310	<0.310	<0.310	<0.310
	4-Aug-04	4.00	3.6 HY	<0.50	<0.500	<0.500	<0.500	<0.500
	2-Feb-05	0.27	0.36 HY	0.25	<0.063	<0.063	<0.063	<0.063
	6-Jul-05	0.32	0.43 HY	0.32	0.0017	<0.0005	<0.0005	0.0016
	6-Jan-06	0.22	0.30 HY	0.39	0.0014	<0.0005	<0.0005	0.0012
	6-Jul-06	0.14	0.27 HY	0.500	<0.005	<0.005	<0.005	<0.005
	1-Mar-07	0.19	0.31 HY	0.490	<0.005	<0.005	<0.005	<0.005
	23-Aug-07	0.97	1.700 HY	0.320	<0.005	<0.005	<0.005	<0.005
	20-Feb-08	0.38	0.48 Y	<0.031	<0.031	<0.031	<0.031	<0.031
	21-Aug-08	0.40	0.60 Y	0.220	<0.013	<0.013	<0.013	<0.013
	10-Feb-09	**0.10**	**0.15 Y**	**0.280**	**<0.013**	**<0.013**	**<0.013**	**<0.013**
SOMA-4	19-Oct-01	2.5	5	0.63	<0.13	<0.13	<0.13	<0.26
	31-Jan-02	FP	FP	FP	FP	FP	FP	FP
	16,17-Apr-02	FP	FP	FP	FP	FP	FP	FP
	17,18-Jul-02	FP	FP	FP	FP	FP	FP	FP
	22,23-Oct-02	FP	FP	FP	FP	FP	FP	FP
	18-Feb-03	FP	FP	FP	FP	FP	FP	FP
	29-Jul-03	FP	FP	FP	FP	FP	FP	FP
	10-Feb-09	**44**	**65 Y**	**0.018**	**<0.005**	**0.016**	**<0.005**	**0.029**
SOMA-5	4-Aug-04	4.1	3.7 HY	<0.005	<0.005	<0.005	<0.005	<0.005
	2-Feb-05	0.11 Z	0.15 HYZ	<0.005	<0.005	<0.005	<0.005	<0.005
	6-Jul-05	2.3 H	3.1 HY	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	9-Jan-06	0.89	1.2 HY	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	6-Jul-06	0.450 YZ	0.720 YZ	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1-Mar-07	NA	3.9 YZ	0.0052	<0.0005	<0.0005	<0.0005	<0.0005
	23-Aug-07	NA	NA	NA	NA	NA	NA	NA
	20-Feb-08	NA	NA	NA	NA	NA	NA	NA
	21-Aug-08	NA	NA	NA	NA	NA	NA	NA
	10-Feb-09	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE in Groundwater Samples
Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)

Notes:

[b] Analysis was carried out past the hold date, no analytical problems were encountered. See narrative for Q1 2008

[C] Presence of this compound confirmed by second column, however, the confirmation concentration different from reported results by more than a factor of two.

[H] Heavier hydrocarbons than the standard are present in the sample.

[J] Result is estimated.

[L] Lighter hydrocarbons contributed to the quantitation

NA Not analyzed.
During first semi-annual 2009 event SOMA-5 had insufficient groundwater for sampling

[Y] Sample exhibits fuel pattern which does not resemble standard.

[Z] Sample exhibits unknown single peak or peaks.

FP: Free product detected in SOMA 4.
TPH, purge = Total petroleum hydrocarbons (purgeable)
Groundwater samples collected from the temporary sampling points are considered grab samples, therefore, the results should be considered estimates of groundwater quality.

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
Temporary Sampling Points Installed by Geosolv, LLC							
B-2	24-Jan-00	<0.0013	<0.0013	0.27	0.001	< 0.0013	< 0.0013
B-3	24-Jan-00	< 0.0020	< 0.002	0.61	< 0.002	< 0.002	< 0.002
B-7	24-Jan-00	< 0.0036	< 0.0036	0.92	0.004	< 0.0036	< 0.0036
	11-Aug-00	< 0.0031	< 0.0031	0.86	0.005	< 0.0031	< 0.0031
	31-Oct-00	< 0.0042	< 0.0042	0.91	0.004	< 0.0042	< 0.0042
	27-Jul-01	0.01	0.017	0.86	0.005	<0.0031	<0.0031
	27-Apr-01	<0.0031	<0.0031	1.10	0.007	<0.0031	<0.0031
	31-Jan-01	< 0.0042	< 0.0042	0.92	0.005	< 0.0042	< 0.0042
B-8	24-Jan-00	< 0.0005	< 0.0005	0.035	< 0.0005	< 0.0005	< 0.0005
B-9	24-Jan-00	< 0.0005	0.001	0.003	< 0.0005	< 0.0005	< 0.0005
B-10	24-Jan-00	1.20	2.40	14.00	0.090	< 0.063	< 0.063
	10-Aug-00	2.90	1.60	6.50	0.050	< 0.025	< 0.025
	31-Oct-00	2.40	1.90	7.10	0.061	< 0.025	< 0.025
	27-Jul-01	1.70	1.40	7.30	0.043	<0.025	<0.025
	27-Jul-01	0.87	0.81	6.60	0.041	<0.025	<0.025
	31-Jan-01	2.10	1.60	6.60	0.044	< 0.025	< 0.025
	6-Jul-05	0.59	0.34	12.00	<0.1	<0.1	<0.1
	9-Jan-06	0.14	0.29	13.00	<0.1	<0.1	<0.1
	6-Jul-06	0.37	0.38	14.00	<0.1	<0.1	<0.1
	1-Mar-07	<0.1	<0.1	14.00	0.110	<0.1	<0.1
	23-Aug-07	NA	NA	NA	NA	NA	NA
	20-Feb-08	20.0	9.1	16.0	<0.25	<0.25	<0.25
	25-Mar-08	520.0	70.0	28.0	<0.36	<0.36	<0.36
	21-Aug-08	1.1	0.97	17.0	0.096	<0.083	<0.083
	10-Feb-09	**1.2**	**1.2**	**2.9**	**<0.02**	**<0.02**	**<0.02**
B-13	24-Jan-00	0.020	0.029	0.13	0.005	< 0.0005	< 0.0005
Temporary Sampling Points Installed by LFR							
GW-2	19-Jul-99	0.014	0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	20-Jan-00	0.130	0.019	0.006	< 0.0005	< 0.0005	< 0.0005
	28-Apr-00	0.120	0.016	0.003	< 0.0005	< 0.0005	< 0.0005
	2-Nov-00	0.008	0.001	0.003	< 0.0005	< 0.0005	< 0.0005
	1-Feb-01	0.008	0.001	0.003	< 0.0005	< 0.0005	< 0.0005
	27-Apr-01	0.010	0.002	0.002	<0.0005	<0.0005	<0.0005
	27-Jul-01	0.033	0.004	0.002	<0.0005	<0.0005	<0.0005
	19-Oct-01	0.019	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
GW-2 cont.	31-Jan-02	0.0092 [b]	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.0100 [b]	<0.0050 [b]
	16,17-Apr-02	0.014	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	17-18-Jul-02	0.014	<0.005	<0.005	<0.005	<0.01	<0.005
	22,23-Oct-02	0.027	<0.005	<0.005	<0.005	<0.010	<0.005
	19-Feb-03	0.057	0.007	<0.005	<0.005	<0.010	<0.005
	29-Jul-03	0.043	<0.005	<0.005	<0.005	<0.010	<0.005
	28-Jan-04	0.057	0.0069	<0.005	<0.005	<0.010	<0.005
	4-Aug-04	0.075	0.0100	<0.005	<0.005	<0.010	<0.005
	2-Feb-05	0.049	0.0066	0.016	<0.005	<0.010	<0.005
	6-Jul-05	0.082	0.0110	0.0009	<0.0005	<0.0005	<0.0005
	6-Jan-06	0.061	0.0079	0.0008	<0.0005	<0.0005	<0.0005
	6-Jul-06	0.0750	0.0095	0.0007	<0.0005	<0.0005	<0.0005
	28-Feb-07	0.082	0.0096	0.0006	<0.0005	<0.0005	<0.0005
	22-Aug-07	NA	NA	NA	NA	NA	NA
	20-Feb-08	NA	NA	NA	NA	NA	NA
	22-Aug-08	0.015	0.003	<0.0005	<0.0005	<0.0005	<0.0005
	9-Feb-09	**0.059**	**0.0062**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
GW-3	19-Jul-99	0.220	<0.001	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	20-Jan-00	0.055	0.001	0.020	< 0.0005	< 0.0005	< 0.0005
	27-Apr-00	0.350	0.002	0.006	< 0.0005	< 0.0005	< 0.0005
Split	27-Apr-00	0.270	0.002	0.002	< 0.0013	< 0.0013	< 0.0013
	11-Aug-00	0.068	0.003	0.012	< 0.0005	< 0.0005	< 0.0005
	2-Nov-00	0.059	0.001	0.002	< 0.0005	< 0.0005	< 0.0005
	1-Feb-01	0.046	0.001	0.001	< 0.0005	< 0.0005	< 0.0005
	27-Apr-01	0.079	0.001	0.002	<0.0005	<0.0005	<0.0005
	27-Jul-01	0.090	0.001	<0.0005	<0.0005	<0.0005	<0.0005
	19-Oct-01	0.180	<0.0100	<0.0100	<0.0100	<0.0200	<0.0100
	31-Jan-02	0.0960 [b]	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.0100 [b]	<0.0050 [b]
	16,17-Apr-02	0.160	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	17,18-Jul-02	0.086	<0.005	<0.005	<0.005	<0.01	<0.005
	22,23-Oct-02	0.200	<0.0071	<0.0071	<0.0071	<0.014	<0.0071
	19-Feb-03	0.240	<0.005	0.006	<0.005	<0.010	<0.005
	29-Jul-03	0.430	<0.010	<0.010	<0.010	<0.010	<0.010
	28-Jan-04	0.170	<0.005	<0.005	<0.005	<0.010	<0.005
	3-Aug-04	0.440	<0.017	<0.017	<0.017	<0.033	<0.017
	2-Feb-05	0.360	<0.031	<0.031	<0.031	<0.063	<0.031
	6-Jul-05	0.320	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	6-Jan-06	0.200	0.0008	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jul-06	0.400	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	1-Mar-07	0.400	0.002	<0.0017	<0.0017	<0.0017	<0.0017
	23-Aug-07	0.150	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	20-Feb-08	0.082	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-08	0.240	0.0013	<0.0005	<0.0005	<0.0005	<0.0005
	9-Feb-09	**0.330**	**<0.0025**	**<0.0025**	**<0.0025**	**<0.0025**	**<0.0025**
GW-4	19-Jul-99	< 0.0005	< 0.0005	0.004	< 0.0005	< 0.0005	0.002
	20-Jan-00	0.001	< 0.0005	0.004	< 0.0005	< 0.0005	0.002
Split	20-Jan-00	0.001	< 0.0005	0.004	< 0.0005	< 0.0005	0.002
	27-Apr-00	0.002	< 0.0005	0.001	< 0.0005	< 0.0005	0.001
	30-Jan-01	< 0.0005	< 0.0005	0.002	< 0.0005	< 0.0005	0.001
	27-Jul-01	< 0.0005	< 0.0005	0.003	< 0.0005	0.001	0.002
	19-Oct-01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	31-Jan-02	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.0100 [b]	<0.0050 [b]
	16,17-Apr-02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	17,18-Jul-02	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
	22,23-Oct-02	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	19-Feb-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	28-Jan-04	0.0081	<0.005	0.010	<0.005	<0.010	<0.005
	3-Aug-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	1-Feb-05	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	6-Jul-05	0.0006	<0.0005	0.0013	<0.0005	<0.0005	0.0011
	5-Jan-06	<0.0005	<0.0005	0.0018	<0.0005	<0.0005	0.0015
	28-Feb-07	0.0006	<0.0005	0.0016	<0.0005	<0.0005	0.0014
	22-Aug-07	NA	NA	NA	NA	NA	NA
	20-Feb-08	<0.0005	<0.0005	0.0010	<0.0005	<0.0005	0.0011
	21-Aug-08	NA	NA	NA	NA	NA	NA
	10-Feb-09	**<0.0005**	**<0.0005**	**0.0013**	**<0.0005**	**<0.0005**	**0.0017**

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
GW-5	27-Aug-99	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	20-Jan-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	27-Apr-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
GW-6A	27-Aug-99	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Split	27-Aug-99	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	25-Jan-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	27-Apr-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
GW-7	15-Jul-99	< 0.0005	< 0.0005	0.004	< 0.0005	< 0.0005	0.001
	15-Jul-99	< 0.0020	< 0.0020	0.004	< 0.0020	< 0.0020	< 0.0020
Split	15-Jul-99	< 0.0020	< 0.0020	0.004	< 0.0020	< 0.0020	< 0.0020
GW-8	19-Jul-99	0.024	0.015	0.004	0.002	0.001	< 0.0005
	20-Jan-00	0.150	0.190	0.053	0.012	0.005	< 0.0007
Split	20-Jan-00	0.150	0.180	0.052	0.011	0.005	< 0.0005
	28-Apr-00	0.120	0.110	0.029	0.005	0.002	< 0.0005
Monitoring wells owned by TOSCO							
MW-11	25-Jan-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	28-Apr-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	10-Aug-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	1-Nov-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	31-Jan-01	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	27-Apr-01	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	27-Jul-01	0.002	0.001	0.006	< 0.0005	< 0.0005	< 0.0005
	19-Oct-01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	31-Jan-02	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.0100 [b]	<0.0050 [b]
	16,17-Apr-02	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050
	17,18-Jul-02	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
	22,23-Oct-02	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	18-Feb-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	28-Jan-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	3-Aug-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	1-Feb-05	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	5-Jul-05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jan-06	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jul-06	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	28-Feb-07	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-07	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	19-Feb-08	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-08	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	10-Feb-09	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
Monitoring wells installed by LFR							
LFR-1	9-Aug-00	2.80	0.064	0.041	< 0.0083	< 0.0083	< 0.0083
	30-Oct-00	0.82	0.034	0.010	< 0.0031	< 0.0031	< 0.0031
Split	30-Oct-00	0.87	0.035	0.014	< 0.0031	< 0.0031	< 0.0031
	29-Jan-01	0.77	0.026	0.007	<0.0025	<0.0025	<0.0025
	26-Apr-01	0.44	0.013	0.005	<0.0013	<0.0013	<0.0013
	27-Jul-01	0.38	0.031	0.010	<0.0013	<0.0013	<0.0013
	18-Oct-01	0.78	0.093	<0.0310	<0.0310	<0.0630	<0.0310
	31-Jan-02	0.37 [b]	0.035 [b]	<0.0130 [b]	<0.0130 [b]	<0.0250 [b]	<0.0130 [b]
	16,17-Apr-02	0.38	0.040	<0.0130	<0.0130	<0.0250	<0.0130
	17,18-Jul-02	0.36	0.041	<0.013	<0.013	<0.025	<0.013
	22,23-Oct-02	0.18	0.024	0.007	<0.005	<0.010	<0.005
	18-Feb-03	0.28	0.032	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	0.15	0.027	0.007	<0.005	<0.010	<0.005
	29-Jan-04	0.15	0.023	0.0077	<0.0063	<0.013	<0.0063
	4-Aug-04	0.058	0.016	0.0052	<0.005	<0.010	<0.005
	2-Feb-05	0.089	0.0079	0.0072	<0.005	<0.010	<0.005
	6-Jul-05	0.096	0.0260	0.0049	<0.0005	<0.0005	<0.0005
	6-Jan-06	0.062	0.0076	0.0010	<0.0005	<0.0005	<0.0005
	6-Jul-06	0.0078	0.0410	0.001	<0.0005	<0.0005	<0.0005
	1-Mar-07	0.098	0.0099	0.0017	<0.0005	<0.0005	<0.0005
	23-Aug-07	0.170	0.073	0.036	0.0066	0.0005	<0.0005
	19-Feb-08	0.130	0.051	0.021	0.0048	<0.001	<0.001
	22-Aug-08	0.084	0.047	0.014	0.0039	<0.0005	<0.0005
	9-Feb-09	**0.100**	**0.020**	**0.0031**	**<0.001**	**<0.001**	**<0.001**
LFR-2	11-Aug-00	< 0.0005	< 0.0005	0.035	< 0.0005	0.005	< 0.0005
	2-Nov-00	< 0.0005	< 0.0005	0.130	0.001	0.015	0.001
	29-Jan-01	<0.0005	<0.0005	0.006	<0.0005	0.002	<0.0005
	27-Apr-01	0.001	<0.0005	0.006	<0.0005	0.001	<0.0005
split	27-Jul-01	0.001	0.001	0.019	<0.0005	<0.0005	<0.0005
	18-Oct-01	<0.0071	<0.0071	0.160	<0.0071	<0.0140	<0.0071
	27-Apr-01	0.001	<0.0005	0.007	<0.0005	0.002	<0.0005
	31-Jan-02	<0.0050 [b]	<0.0050 [b]	0.0069 [b]	<0.0050 [b]	<0.0100 [b]	<0.0050 [b]
	16,17-Apr-02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	17,18-Jul-02	<0.005	<0.005	0.012	<0.005	<0.01	<0.005
	22,23-Oct-02	<0.005	<0.005	0.066	<0.005	<0.010	<0.005
	18-Feb-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	<0.005	<0.005	0.011	<0.005	<0.010	<0.005
	4-Aug-04	<0.005	<0.005	0.012	<0.005	<0.010	<0.005
	1-Feb-05	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	5-Jul-05	<0.0005	<0.0005	0.0012	<0.0005	<0.0005	<0.0005
	5-Jan-06	<0.0005	<0.0005	0.0007	<0.0005	<0.0005	<0.0005
	5-Jul-06	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	28-Feb-07	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-07	<0.0005	<0.0005	0.078	<0.0005	0.0098	<0.0005
	20-Feb-08	<0.0005	<0.0005	0.014	<0.0005	0.004	<0.0005
	21-Aug-08	<0.0083	<0.0005	1.40	0.0083	0.089	0.0009
	10-Feb-09	**<0.0017**	**<0.0017**	**0.33**	**0.0023**	**0.032**	**<0.0017**

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
LFR-3	10-Aug-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Split	10-Aug-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	1-Nov-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	30-Jan-01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	27-Apr-01	0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	27-Jul-01	0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	18-Oct-01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	31-Jan-02	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.0050 [b]	<0.0100 [b]	<0.0050 [b]
	16,17-Apr-02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	17,18-Jul-02	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
	22,23-Oct-02	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	19-Feb-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	29-Jan-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	3-Aug-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	2-Feb-05	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	5-Jul-05	0.011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9-Dec-05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jan-06	0.0031	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jul-06	0.023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1-Mar-07	0.020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-07	0.0039	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	20-Feb-08	0.0020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-08	0.0013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9-Feb-09	**0.0015**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**
LFR-4	11-Aug-00	< 0.0005	< 0.0005	0.001	< 0.0005	< 0.0005	< 0.0005
	31-Oct-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	30-Jan-01	<0.0005	<0.0005	0.001	<0.0005	< 0.0005	< 0.0005
	27-Apr-01	<0.0005	<0.0005	0.002	<0.0005	<0.0005	<0.0005
	27-Jul-01	0.001	<0.0005	0.002	<0.0005	<0.0005	<0.0005
	16,17-Apr-02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	17,18-Jul-02	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
	22,23-Oct-02	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	19-Feb-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	29-Jan-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	4-Aug-04	NA	NA	NA	NA	NA	NA
	5-Jul-05	0.0011	<0.0005	0.0026	<0.0005	<0.0005	<0.0005
	5-Jul-06	<0.0005	<0.0005	0.0022	<0.0005	0.0007	<0.0005
	1-Mar-07	<0.0005	<0.0005	0.0033	<0.0005	0.0006	<0.0005
	22-Aug-07	NA	NA	NA	NA	NA	NA
	20-Feb-08	NA	NA	NA	NA	NA	NA
	21-Aug-08	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	10-Feb-09	**<0.0005**	**<0.0005**	**0.0007**	**<0.0005**	**<0.0005**	**<0.0005**

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
Monitoring wells installed by SOMA							
SOMA-1	19-Oct-01	<0.0050	<0.0050	0.014	<0.0050	<0.0100	<0.0050
	31-Jan-02	0.0056 [b]	<0.0050 [b]	0.0070 [b]	<0.0050 [b]	<0.0100 [b]	0.0057 [b]
	16,17-Apr-02	0.006	<0.0050	0.007	<0.0050	<0.0100	<0.0050
	17,18-Jul-02	<0.005	<0.005	0.016	<0.005	<0.01	<0.005
	22,23-Oct-02	0.008	<0.005	0.041	<0.005	<0.010	0.007
	19-Feb-03	0.009	<0.0071	0.016	<0.0071	<0.014	<0.0071
	30-Jul-03	0.016	<0.005	0.042	<0.005	<0.010	0.006
	29-Jan-04	0.019	<0.005	0.044	<0.005	<0.010	0.0059
	3-Aug-04	0.019	<0.013	0.038	<0.013	<0.025	<0.013
	1-Feb-05	0.022	<0.017	0.028	<0.017	<0.033	<0.017
	5-Jul-05	0.041	0.0026	0.051	<0.0017	<0.0017	0.0046
	5-Jan-06	0.019	0.0013	0.028	<0.0005	<0.0005	0.0026
	5-Jul-06	0.037	0.0028	0.057	<0.002	<0.002	0.0037
	28-Feb-07	0.079	0.0062	0.170	<0.002	<0.002	0.0067
	22-Aug-07	0.062	0.0060	0.170	0.0022	<0.002	0.0035
	20-Feb-08	0.075	0.0058	0.180	0.0022	<0.002	0.0025
	21-Aug-08	0.110	0.0085	0.250	<0.0025	<0.0025	0.0031
	10-Feb-09	**0.085**	**0.0067**	**0.290**	**0.0028**	**<0.0025**	**0.0035**
SOMA-2	19-Oct-01	1.400	0.350	5.000	<0.250	<0.500	<0.250
	31-Jan-02	<0.071 [b]	<0.071 [b]	1.8 [b]	<0.071 [b]	<0.140 [b]	<0.071 [b]
	16,17-Apr-02	<0.130	<0.130	2.900	<0.130	<0.250	<0.130
	17,18-Jul-02	<0.063	<0.063	1.600	<0.063	<0.13	<0.063
	22,23-Oct-02	0.017	0.008	0.350	<0.0071	<0.014	<0.0071
	19-Feb-03	<0.017	<0.017	0.790	<0.017	<0.033	<0.017
	29-Jul-03	0.032	<0.020	0.580	<0.040	<0.040	<0.020
	28-Jan-04	0.036	<0.017	0.430	<0.017	<0.033	<0.017
	4-Aug-04	<0.031	<0.031	0.430	<0.031	<0.063	<0.031
	2-Feb-05	<0.310	<0.310	6.100	<0.310	<0.630	<0.310
	6-Jul-05	0.078	0.047	5.200	0.044	<0.025	<0.025
	9-Jan-06	<0.042	<0.042	7.30	0.049	<0.042	<0.042
	6-Jul-06	<0.042	<0.042	5.400	0.046	<0.042	<0.042
	1-Mar-07	<0.042	<0.042	5.100	<0.042	<0.042	<0.042
	23-Aug-07	<0.042	0.110	5.400	0.042	<0.042	<0.042
	20-Feb-08	0.200	0.360	16.00	0.100	<0.100	<0.100
	25-Mar-08	6.400	2.500	20.00	0.130	<0.130	<0.130
	21-Aug-08	0.620	0.870	15.00	0.160	<0.0063	<0.0063
	10-Feb-09	**0.170**	**0.390**	**5.90**	**<0.05**	**<0.05**	**<0.05**
SOMA-3	19-Oct-01	0.042	0.057	0.440	<0.025	<0.050	<0.025
	31-Jan-02	0.018 [b]	0.023 [b]	0.38 [b]	<0.013 [b]	<0.025 [b]	<0.013 [b]
	16,17-Apr-02	0.025	0.018	0.36	<0.017	<0.033	<0.017
	17,18-Jul-02	0.027	<0.017	0.44	<0.017	<0.033	<0.017
	22,23-Oct-02	<0.170	<0.170	5.90	<0.170	<0.330	<0.170
	19-Feb-03	<0.130	<0.130	4.10	<0.130	<0.250	<0.130
	29-Jul-03	0.150	0.220	4.70	<0.130	<0.250	<0.130
	29-Jan-04	<0.310	<0.310	7.70	<0.310	<0.630	<0.310
	4-Aug-04	<0.500	<0.500	6.90	<0.500	<1.0	<0.500
	2-Feb-05	<0.063	<0.063	1.10	<0.063	<0.130	<0.063
	6-Jul-05	0.031	0.014	0.89	0.0067	0.0011	0.0032
	6-Jan-06	0.025	0.0094	0.77	0.005	0.001	0.0026
	6-Jul-06	0.015	0.0064	0.370	<0.005	<0.005	<0.005
	1-Mar-07	0.015	<0.005	0.270	<0.005	<0.005	<0.005
	23-Aug-07	0.280	0.060	2.900	0.010	<0.005	<0.005
	20-Feb-08	0.041	0.062	5.300	0.068	<0.031	<0.031
	21-Aug-08	0.160	0.030	2.100	0.019	<0.013	<0.013
	10-Feb-09	**0.024**	**0.014**	**1.800**	**0.013**	**<0.013**	**<0.013**

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
SOMA-4	19-Oct-01	<0.13	<0.13	2.600	<0.13	<0.25	<0.13
	31-Jan-02	FP	FP	FP	FP	FP	FP
	16,17-Apr-02	FP	FP	FP	FP	FP	FP
	17,18-Jul-02	FP	FP	FP	FP	FP	FP
	22,23-Oct-02	FP	FP	FP	FP	FP	FP
	18-Feb-03	FP	FP	FP	FP	FP	FP
	29-Jul-03	FP	FP	FP	FP	FP	FP
	10-Feb-09	**<0.005**	**<0.005**	**0.830**	**0.0051**	**<0.005**	**<0.005**
SOMA-5	4-Aug-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	2-Feb-05	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	6-Jul-05	<0.0025	<0.0025	0.0057	<0.0025	<0.0025	<0.0025
	9-Jan-06	<0.0025	0.0067	0.430	0.027	<0.0025	<0.0025
	6-Jul-06	<0.0005	<0.0005	0.0035	<0.0005	<0.0005	<0.0005
	1-Mar-07	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	23-Aug-07	NA	NA	NA	NA	NA	NA
	20-Feb-08	NA	NA	NA	NA	NA	NA
	21-Aug-08	NA	NA	NA	NA	NA	NA
	10-Feb-09	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Notes:
<: Not detected above the laboratory reporting limits.
[b] analysis was carried out past hold date, no analytical problems were encountered
FP: Not Analyzed due to Free Product
NA: Not Analyzed. Well LFR-4 was inaccessible during the Third Quarter 2004 Monitoring Event.
During First Semi-annual 2009 event SOMA-5 had insufficient groundwater for sampling

Table 6
Historical In-Situ and Ex-Situ Analyses Results for Bioattenuation Parameters in Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	Dissolved Oxygen (mg/L)	Dissolved Manganese (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Methane* (mg/L)	ORP	Hydrogen (nanoMoles)
B-7	11-Aug-00						11.0	193	
B-7-field	11-Aug-00	0.63		-1.0	3.0				
	31-Oct-00	0.62	2.6	< 0.10	< 1.0	11.00	2.4		-3
B-7-field	31-Oct-00	0.25		0.4	-1.0	15.85		-63	
	1-Feb-01	0.78	2.2	0.8	<1.0	15.00	13.0		
B-7-field	31-Jan-01	0.48						28	
B-7 Field	26-Apr-01	0.60	1.7	2.5	5.0	>3.3	7.6	-28	
B-7 Field	26-Jul-01	1.98	7.3	0.0	8.0	11.60	7.0	-40	
B-8 field	31-Jan-01	0.45						58	
B-10	10-Aug-00			< 0.05	< 0.05	5.70	10.0	213	
B-10-field	10-Aug-00	0.44		-1.0	-2.0				
	31-Oct-00	2.40	1.4	< 0.10	< 1.0	5.90	6.7		0.81
B-10-field	31-Oct-00	0.44		0.0	0.0	7.60		-22	
	31-Jan-01	6.40	1.3	< 0.10	<2.0	7.70	24.0		1.3
B-10-field	31-Jan-01	0.46						64	
B-10 Field	11-Jun-01	0.90	0.0	0	0	1.25	3.9	-8	NM
B-10 Field	26-Jun-01	1.87	1.3	0	3	6.20	5.6	-22	
	6-Jul-05	9.53	41.1	35	80	3.30	2.2	12	
	9-Jan-06	3.39	13.6	0	0	3.30	10.0	10	
	6-Jul-06	10.62	0.0	0	0	3.30	11	-104	
	1-Mar-07	10.53	1.8	0	0	3.30	0.25	-76.3	
	23-Aug-07	NM	NM	NM	NM	NM	NM	NM	
	20-Feb-08	NM	0.70	7.20	11.00	3.30	6.30	NM	
	25-Mar-08	NM	NM	NM	NM	NM	7.40	NM	
	21-Aug-08	0.25	12.40	12.10	16.00	3.30	2.90	-60.20	
	10-Feb-09	**0.18**	**10.50**	**5.70**	**80.00**	**2.68**	**2.00**	**-65.70**	
GW-2-field	1-Nov-00	2.32						77	
GW-2	1-Feb-01	3.80					0.0410		
GW-2-field	1-Feb-01	0.58						159	
	26-Apr-01	4.00	1.0	7.1	36	0.02	0.0002	152	NM
	26-Jul-01	1.93	0.0	3.9	60	0.00	0.0160	233	
GW-2 field	Not En. Sample						0.0009		
	31-Jan-02	2.80	0.0	0.8	45	0.36	0.0069	179	NM
	16,17-Apr-02	1.76	0.0	4.7	70	0.09	0.0003	198	
	17,18-Jul-02	1.39	0.6	0.0	69	0.00	0.0021	161	
	22,23-Oct-02	3.86	0.6	11.5	40	0.07	0.0007	166	

Table 6
Historical In-Situ and Ex-Situ Analyses Results for Bioattenuation Parameters in Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	Dissolved Oxygen (mg/L)	Dissolved Manganese (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Methane* (mg/L)	ORP	Hydrogen (nanoMoles)
GW-2	19-Feb-03	7.24	0.1	10.3	49	0.03	0.0012	169	
	29-Jul-03	4.21	0.2	0.0	44	0.00	0.0007	47	
	28-Jan-04	6.02	0.0	3.3	56	0.00	0.00046	143	
	4-Aug-04	8.27	0.0	0.0	27	0.00	0.00035	115	
	2-Feb-05	8.41	0.0	0.0	40	0.00	<0.0050	76	
	6-Jul-05	10.90	0.0	5.3	51	0.00	<0.005	90	
	6-Jan-06	8.11	2.4	0.0	44	0.00	<0.005	86	
	6-Jul-06	9.71	0.3	0.0	53	0.00	<0.005	86	
	28-Feb-07	6.51	1.5	14.4	48	0.12	<0.005	33.5	
	22-Aug-07	NM	NM	NM	NM	NM	NM	NM	
	20-Feb-08	NM	NM	NM	NM	NM	NM	NM	
	22-Aug-08	0.12	0.00	0.00	29.00	0.00	<0.005	114.80	
	9-Feb-09	**0.14**	**1.30**	**3.40**	**66.00**	**0.11**	**<0.005**	**10.40**	
GW-3	11-Aug-00						< 0.0005	395	
GW-3-field	11-Aug-00	0.72		1.0	46				
GW-3-field	1-Nov-00	7.76						81	
	29-Jan-01	8.80					0.0120		
GW-3-field	1-Feb-01	8.99						235	
	27-Apr-01	2.90	0.0	0.7	30	0.00	0.0150	212	NM
	26-Jul-01	2.48	0.0	2.4	52	0.12	0.0083	214	
GW-3 field	18-Oct-01	3.76	0.0	5.2	4.9	0.00	0.0041	131	NM
	31-Jan-02	3.70	0.2	1.3	52	0.00	0.0081	163	
	16,17-Apr-02	7.55	0.0	4.2	59	0.00	0.0006	133	
	17,18-Jul-02	3.50	0.0	0.0	47	0.22	0.0100	155	
	22,23-Oct-02	2.19	0.0	1.6	33	0.00	0.0007	178	
	19-Feb-03	5.28	0.4	4.0	43	0.02	0.0007	123	
	29-Jul-03	6.12	0.0	0.0	31	0.00	0.0005	96	
	28-Jan-04	4.21	0.0	0.8	61	0.00	0.00042	141	
	3-Aug-04	10.20	0.0	0.0	41	0.00	0.00028	84	
	2-Feb-05	3.97	0.5	0.0	12	0.00	<0.0050	84	
	6-Jul-05	7.96	2.9	0.5	52	0.00	<0.005	67	
	6-Jan-06	5.22	0.0	0.0	4	0.00	<0.005	61	
	6-Jul-06	5.69	3.1	0.0	31	0.00	<0.005	63	
	1-Mar-07	7.27	0.6	4.3	15	0.00	<0.005	50.4	
	23-Aug-07	4.79	1.9	7.8	33	0.17	<0.005	178.3	
	20-Feb-08	0.22	0.0	35.0	0	0.00	<0.0065	71.1	
	22-Aug-08	0.12	0.3	0.0	4	0.00	<0.005	135.5	
	9-Feb-09	**0.13**	**1.4**	**2.8**	**36**	**0.02**	**<0.005**	**-6.1**	
GW-4-field	30-Jan-01	0.83						67	
GW-4-field	26-Jul-01	2.59	0.2	10.5	25	1.29	0.0028	-3	
GW-4-field	18-Oct-01	1.00	0.1	0.0	0	4.80	4.80	-84	NM
GW-4	31-Jan-02	0.90	0.8	0.0	0	8.00	3.50	-91	
	16,17-Apr-02	0.41	0.1	5.2	0	5.70	4.70	-2	
	17,18-Jul-02	2.38	3.0	0.0	0	>3.3	4.60	-68	
	22,23-Oct-02	NM	NM	NM	NM	NM	0.30	NM	
	19-Feb-03	7.76	0.4	5.4	0	3.30	2.30	-57	
	30-Jul-03	5.38	6.1	0.0	0	3.30	1.30	-141	

Table 6
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at the Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	Dissolved Oxygen (mg/L)	Dissolved Manganese (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Methane* (mg/L)	ORP	Hydrogen (nanoMoles)
GW-4	28-Jan-04	2.17	5.9	0.0	0	3.30	0.22	-73	
	3-Aug-04	10.35	0.9	0.0	0	3.30	3.20	-113	
	1-Feb-05	2.97	0.8	0.0	0	1.53	1.20	93	
	6-Jul-05	9.17	1.9	9.8	20	1.07	0.84	128	
	5-Jan-06	7.62	3.4	0.0	0	3.30	3.40	110	
	28-Feb-07	5.26	1.1	0.0	0	3.30	3.90	-119.5	
	22-Aug-07	NM	NM	NM	NM	NM	NM	NM	
	20-Feb-08	0.23	0.60	0.00	0.00	3.30	2.50	-108.70	
	21-Aug-08	NM	NM	NM	NM	NM	NM	NM	
	10-Feb-09	**0.13**	**8.00**	**2.30**	**8.00**	**3.30**	**2.40**	**-19.40**	
MW-11	10-Aug-00			2.8	63	< 0.1	< 0.0005	476	
MW-11-field	10-Aug-00	2.52		4.1	67				
	1-Nov-00	4.10	< 0.010	15.0	90	< 0.1	0.0000		130
MW-11-field	1-Nov-00	4.01		3.3	73	0.00		87	
MW-11-field	1-Nov-00	3.97		27.3	74	0.00		319	
	31-Jan-01	6.30	< 0.010	15.0	94	< 1.0	0.0001		1.1
MW-11 Field	26-Apr-01	7.40	0.0	6.8	52	0.00	0.0014	229	NM
MW-11 Field	26-Jul-01	1.85	0.0	5.2	77	0.00	0.0049	233	
MW-11 Field	18-Oct-01	5.58	0.0	10.1	NM	0.00	0.0066	155	NM
	31-Jan-02	4.90	0.0	2.8	79	0.00	0.0077	218	
	16,17-Apr-02	3.18	0.0	2.8	88	0.00	0.0092	242	
	17,18-Jul-02	2.82	0.0	4.1	79	0.00	0.0088	357	
	22,23-Oct-02	4.47	0.0	3.7	69	0.00	0.0025	118	
	18-Feb-03	5.65	0.6	2.3	73	0.00	0.0022	304	
	30-Jul-03	3.80	0.1	0.0	54	0.00	0.0010	224	
	28-Jan-04	7.32	0.0	0.0	80	0.00	0.0200	130	
	3-Aug-04	10.40	0.0	0.0	77	0.00	0.0028	185	
	1-Feb-05	6.99	1.7	0.0	52	0.00	<0.0050	91	
	5-Jul-05	10.38	1.2	0.0	80	0.00	<0.005	125	
	5-Jan-06	6.21	0.0	0.0	65	0.00	<0.005	166	
	5-Jul-06	8.35	5.9	0.0	80	0.00	<0.005	35	
	28-Feb-07	6.68	0.4	0.0	41	0.63	<0.005	12.9	
	22-Aug-07	3.07	3.5	0.0	54	0.00	<0.005	237	
	19-Feb-08	0.23	0.8	0.0	27	0.00	<0.0065	48	
	22-Aug-08	0.10	1.9	0.0	35	0.00	<0.005	67.60	
	10-Feb-09	**0.25**	**0.6**	**0.0**	**50**	**0.02**	**<0.005**	**34.40**	
LFR-1	9-Aug-00							462	
	11-Aug-00						0.0096		
LFR-1-field	9-Aug-00	3.63		5.5	30				1.5
	30-Oct-00	2.70	0.0	39.0	42	< 1.0	0.0004		
LFR-1-field/split	30-Oct-00	2.95		10.3/10.0	29/29	0.01/0.01		77	1
LFR-1 split	30-Oct-00	3.40	0.0	40.0	43.0	< 1.0	0.0007		
	29-Jan-01	5.10	<0.01	<0.10	51	<1.0	0.0001		0.43
LFR-1-field	29-Jan-01	3.78	0.0		36	0.00		383	
LFR-1 Dup	29-Jan-01	4.60	<0.01	<0.10	50	<1.0	0.0000		0.32
	26-Apr-01	3.20	0.0	12.9	16	0.00	0.0003	224	NM
	26-Jul-01	1.07	0.0	8.0	25	0.01	0.0084	238	

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LFR-1 field	18-Oct-01	1.03	0.0	6.9	24	0.18	0.0054	119	NM
LFR-1	31-Jan-02	1.80	0.3	5.5	31	0.00	0.0062	163	
	16,17-Apr-02	1.68	0.3	1.5	38	0.39	0.0030	240	
	17,18-Jul-02	0.00	0.0	6.1	3	0.07	0.0047	209	
	22,23-Oct-02	0.00	0.4	0.0	23	0.15	0.0008	265	
	18-Feb-03	7.76	0.0	4.3	30	0.00	0.0008	260	
	30-Jul-03	0.58	0.3	0.0	10	0.00	0.0004	190	
	29-Jan-04	3.12	0.5	0.0	57	0.00	0.0011	19	
	4-Aug-04	6.26	5.8	0.0	17	0.00	0.0010	62	
	2-Feb-05	5.24	0.0	0.0	1	0.00	0.0120	93	
	6-Jul-05	8.53	0.2	2.5	40	0.00	<0.005	110	
	6-Jan-06	5.43	3.9	0.0	5	0.00	0.025	161	
	6-Jul-06	9.93	0.4	0.0	6	0.00	<0.005	99	
	1-Mar-07	5.00	5.2	4.5	42	0.04	<0.005	62.9	
	23-Aug-07	0.88	2.7	4.7	23	0.15	<0.005	215	
	19-Feb-08	0.20	0.0	0.0	11	0.00	<0.0065	43.9	
	22-Aug-08	0.14	6.7	0.0	0	0.00	0.0059	119.2	
	9-Feb-09	**0.14**	**4.9**	**0.0**	**23**	**0.00**	**<0.005**	**12.2**	
LFR-2	11-Aug-00						6.60	270	
LFR-2-field	11-Aug-00	0.48		1.5	-1.0	2.70			1200
	2-Nov-00	2.20	8.8	0.3	5.4	5.30	8.50		
LFR-2-field	2-Nov-00	0.47		0.5	-1.0	6.05		-24	
	30-Jan-01	4.40	8.9	1.0	8.3	4.60	4.60		1.1
LFR-2-field	30-Jan-01	0.61	10.7	2.9		1.02		210	
	27-Apr-01	1.40	0.4	1.6	1.0	2.66	14.00	9	NM
	26-Jul-01	0.55	0.2	0.0	0.0	4.50	10.00	-20	
LFR-2 field	18-Oct-01	0.43	0.0	0.0	0.0	6.50	11.00	-75	NM
	31-Jan-02	1.00	0.0	2.6	19.0	1.81	11.00	-14	
	16,17-Apr-02	0.00	0.0	1.7	0.0	7.20	16.00	-6	
	17,18-Jul-02	0.00	13.9	0.0	0.0	7.20	9.60	-64	
	22,23-Oct-02	0.00	10.7	0.5	0.0	3.30	4.70	-82	
	18-Feb-03	0.42	9.0	0.0	0.0	3.30	9.60	-53	
	30-Jul-03	0.00	3.0	0.0	0.0	3.30	8.70	-85	
	4-Aug-04	4.78	1.6	0.0	0.0	3.30	6.20	-93	
	1-Feb-05	1.77	12.1	0.0	0.0	1.79	11.00	69	
	5-Jul-05	4.21	18.2	0.0	0.0	3.30	11.00	-60	
	5-Jan-06	3.53	3.8	0.0	3.0	3.30	14.00	-29	
	5-Jul-06	7.70	4.3	0.0	0.0	3.30	10.00	-136	
	28-Feb-07	3.03	4.2	0.0	0.0	3.30	11.00	-89.9	
	22-Aug-07	0.11	22.7	0.0	0.0	3.30	6.60	-24.0	
	20-Feb-08	0.20	0.0	0.0	0.0	0.76	4.70	-69.5	
	21-Aug-08	0.13	21.4	0.0	0.0	3.30	5.80	-66.1	
	10-Feb-09	**0.16**	**24.0**	**0.2**	**0.0**	**3.30**	**3.70**	**-62.2**	

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LFR-3	10-Aug-00			2.4	64	< 0.1	0.0005	464	
LFR-3 split	10-Aug-00							< 0.0005	
LFR-3-field	10-Aug-00	1.30		2.4	64				850
	1-Nov-00	4.70	0.0	8.8	74	< 1.0	0.0003		
LFR-3-field	1-Nov-00	0.58		1.8	57	0.00		75	
	31-Jan-01	4.10	<0.01	1.2	58	< 1.0	0.0004		
LFR-3-field	30-Jan-01	1.75		0.0	44	0.00		195	
LFR-3 Field	11-Jun-01	1.00	0.0	0.8	28	0.00	0.0086	201	NM
LFR-3 Field	26-Jul-01	1.29	0.4	0.0	51	0.60	0.0035	228	
LFR-3 Field	18-Oct-01	0.54	0.0	0.8	30	0.11	0.0093	139	NM
	31-Jan-02	0.80	0.4	2.6	32	0.00	0.0072	212	
	16,17-Apr-02	0.19	0.4	0.0	55	0.79	0.0096	228	
	17,18-Jul-02	0.00	0.2	1.7	42	0.00	0.0068	166	
	22,23-Oct-02	0.11	0.5	0.0	36	0.00	0.0035	186	
	19-Feb-03	1.10	0.5	0.0	19	0.54	0.0069	217	
	30-Jul-03	0.17	0.1	0.0	21	0.00	0.0069	167	
	29-Jan-04	1.39	0.0	0.0	0	3.30	0.0011	64	
	3-Aug-04	5.14	3.9	0.0	8	0.00	0.0054	175	
	2-Feb-05	2.74	0.0	0.0	0	0.00	<0.005	94	
	5-Jul-05	7.59	0.5	35.0	80	3.29	<0.005	85	
	6-Jan-06	3.52	1.8	0.0	23	0.67	<0.005	151	
	5-Jul-06	5.47	1.1	0.0	40	0.00	<0.005	56	
	1-Mar-07	3.78	1.6	5.3	12	0.72	<0.005	42.7	
	22-Aug-07	1.70	4.0	0.0	9	0.44	<0.005	192	
	20-Feb-08	0.22	6.2	0.0	0	0.00	<0.0065	58.9	
	22-Aug-08	0.14	1.5	0.0	0	0.00	<0.005	140.4	
	9-Feb-09	**0.13**	**0.0**	**2.3**	**44**	**0.00**	**<0.005**	**-41.0**	
LFR-4	11-Aug-00						0.06	402	
LFR-4-field	11-Aug-00	1.13		0.7	1	0.14			1.1
	31-Oct-00	1.90	2.2	< 0.10	2.9	1.10	3.20		
LFR-4-field	31-Oct-00	0.64		1.0		0.61		-80	
	1-Feb-01	3.20	2.8	1.5	2.8	1.80	2.20		1.5
LFR-4-field	1-Feb-01	0.55	4.5	8.0	0.0	1.50		59	
LFR-4 Field	27-Apr-01	5.60	0.0	1.7	0.0	1.37	7.00	14	NM
LFR-4 Field	26-Jul-01	1.65	0.0	0.0	0.0	0.84	1.20	18	
	16,17-Apr-02	0.00	1.0	2.6	6.0	4.80	12.00	-4	
	17,18-Jul-02	0.79	6.8	0.0	0.0	>3.3	2.80	3	
	22,23-Oct-02	0.00	4.0	0.0	0.0	2.55	1.30	-63	
	19-Feb-03	0.50	6.8	0.0	18	3.30	4.40	-41	
	30-Jul-03	0.28	5.1	0.0	0.0	3.30	3.90	-49	
	29-Jan-04	1.64	5.0	0.0	0.0	0.52	4.00	1	
	4-Aug-04	NM	NM	NM	NM	NM	NM	NM	
	5-Jul-05	5.22	2.8	0.0	0.0	3.30	5.40	61	
	5-Jul-06	9.70	5.9	0.0	0.0	3.30	9.20	-98	
	1-Mar-07	3.97	1.7	0.0	0.0	3.30	3.00	-50	
	22-Aug-07	NM	NM	NM	NM	NM	NM	NM	
	19-Feb-08	NM	NM	NM	NM	NM	NM	NM	
	21-Aug-08	0.14	4.40	0.00	0.00	3.20	6.20	-0.70	
	10-Feb-09	**0.18**	**28.10**	**0.00**	**0.00**	**2.18**	**4.40**	**-30.60**	

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SOMA-1	18-Oct-01	4.19	0.3	0.2	33	0.52	0.12	151	NM
	31-Jan-02	0.40	0.0	0.0	18	0.00	0.58	141	NM
	16,17-Apr-02	0.00	0.0	0.6	31	0.10	0.82	213	
	17,18-Jul-02	0.00	0.0	1.8	28	0.05	0.44	149	
	22,23-Oct-02	0.00	0.7	0.0	4	0.00	0.68	131	
	18-Feb-03	5.12	0.4	0.0	1	0.00	0.41	258	
	30-Jul-03	0.00	0.4	0.0	1	0.00	0.99	74	
	29-Jan-04	0.29	0.5	0.0	13	0.47	0.85	133	
	3-Aug-04	4.44	0.0	0.0	25	0.00	0.50	152	
	1-Feb-05	1.57	0.1	0.0	0.0	0.00	0.83	137	
	5-Jul-05	7.58	0.5	0.0	16	0.21	1.50	72	
	5-Jan-06	5.82	0.0	0.0	6	0.00	0.60	156	
	5-Jul-06	6.79	1.8	0.0	13	0.00	1.10	66	
	28-Feb-07	2.13	10.1	0.0	12	0.00	2.50	37.3	
	22-Aug-07	0.14	3.3	0.0	9	0.39	0.79	177.0	
	20-Feb-08	0.22	0.2	0.0	0	0.00	0.65	57.1	
	21-Aug-08	0.12	0.1	0.0	0	0.00	0.67	202.7	
	10-Feb-09	**0.15**	**8.0**	**0.6**	**22**	**0.20**	**1.20**	**22.7**	
SOMA-2	18-Oct-01	0.57	0.0	0.4	0.0	40.00	6.60	-89	NM
	31-Jan-02	0.70	3.8	0.8	0.0	9.00	13.00	103	NM
	16,17-Apr-02	0.00	0.5	0.1	0.0	7.40	14.00	-69	
	17,18-Jul-02	0.00	5.7	0.0	0.0	>3.3	9.40	-87	
	22,23-Oct-02	0.35	1.7	2.8	15	3.30	2.20	-98	
	19-Feb-03	3.17	1.9	1.7	0.0	2.89	2.40	-72	
	30-Jul-03	2.71	1.0	0.0	0.0	0.83	1.00	-53	
	28-Jan-04	4.52	0.2	0.0	0.0	1.46	1.70	-8	
	4-Aug-04	7.06	0.4	0.0	0.0	0.31	1.40	-33	
	2-Feb-05	1.17	8.4	0.0	0.0	3.30	13.00	-95	
	6-Jul-05	5.67	1.1	0.0	0.0	3.30	11.00	-66	
	9-Jan-06	3.01	15.7	5.6	0.0	3.30	15.00	-60	
	6-Jul-06	8.92	7.4	0.0	0.0	3.30	14.00	-85	
	1-Mar-07	6.42	8.7	0.0	0.0	3.30	12.00	-137	
	23-Aug-07	0.43	0.0	0.0	0.0	2.87	8.60	-31.6	
	20-Feb-08	0.25	2.9	0.0	0.0	3.30	11.00	-79.6	
	25-Mar-08	NM	NM	NM	NM	NM	9.10	NM	
	21-Aug-08	0.26	3.10	0.00	0.00	3.30	7.50	-65.40	
	10-Feb-09	**0.18**	**30.30**	**0.00**	**80.00**	**3.30**	**2.50**	**-100.60**	
SOMA-3	18-Oct-01	1.32	0.0	0.0	33	0.22	1.00	2	NM
	31-Jan-02	1.00	22.0	2.0	54	0.62	0.46	-71	NM
	16,17-Apr-02	2.60	0.0	0.6	42	0.77	0.41	29	
	17,18-Jul-02	0.97	10.9	0.0	23	>3.3	0.94	-51	
	22,23-Oct-02	0.30	2.7	0.1	7	3.26	4.20	-98	
	19-Feb-03	0.18	0.0	0.0	0.0	3.30	9.00	-88	
	30-Jul-03	0.00	2.0	0.0	0.0	3.30	8.70	-106	
	29-Jan-04	2.30	3.5	0.0	0.0	3.30	8.40	-85	
	4-Aug-04	5.35	0.0	0.0	0.0	3.30	6.50	-105	
	2-Feb-05	3.66	0.3	0.0	0.0	0.00	2.70	-73	
	6-Jul-05	9.65	0.7	0.0	0.0	0.77	2.50	84	
	6-Jan-06	2.20	2.9	0.0	0.0	0.40	3.10	86	
	6-Jul-06	10.52	0.5	0.0	0.0	0.37	1.40	-58	
	1-Mar-07	5.03	0.5	0.0	0.0	0.80	1.40	-51.9	
	23-Aug-07	9.68	0.0	0.0	35.0	0.28	2.70	11.8	
	20-Feb-08	0.25	34.2	12.1	49.0	3.30	6.50	59.3	
	21-Aug-08	0.30	0.0	0.0	0.0	0.00	1.60	27.3	
	10-Feb-09	**0.20**	**0.8**	**0.0**	**25.0**	**0.80**	**0.83**	**34.2**	

Table 6
Historical In-Situ and Ex-Situ Analyses Results for Bioattenuation Parameters in Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, Oakland, California

Well Name	Date Sampled	Dissolved Oxygen (mg/L)	Dissolved Manganese (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Methane* (mg/L)	ORP	Hydrogen (nanoMoles)
SOMA-4	18-Oct-01	0.83	4.0	22.0	17	0.22	1.20	88	NM
	10-Feb-09	**0.17**	**7.1**	**0.4**	**80.0**	**2.83**	**2.20**	**-104.9**	
SOMA-5	4-Aug-04	5.65	0.0	0.0	0.0	0.23	1.70	-143	
	2-Feb-05	2.40	1.5	0.0	0.0	3.30	3.00	-81	
	6-Jul-05	8.91	20.9	0.0	0.0	3.30	20.00	-113	
	9-Jan-06	3.24	15.2	0.0	0.0	3.30	10.00	-141	
	6-Jul-06	10.54	0.0	0.0	0.0	0.82	6.90	-129	
	1-Mar-07	NM	NM	NM	NM	NM	NM	NM	
	23-Aug-07	NM	NM	NM	NM	NM	NM	NM	
	20-Feb-08	NM	NM	NM	NM	NM	NM	NM	
	21-Aug-08	NM	NM	NM	NM	NM	NM	NM	
	10-Feb-09	**0.18**	**63.4**	**0.0**	**0.0**	**1.64**	**NM**	**-119.4**	

Notes:
Samples with "field" in the well number indicate that the results are from field measurements obtained using a Hach spectrophotometer or a Hydrolab Quanta flow-through instrument.
since April 2001, field measurements have been obtained by a Hach Calorimeter
*) Methane was measured by Microseep Laboratory.
Since the First Quarter 2005, Curtis & Tompkins has analyzed for methane.
NM: Not Measured. Well LFR-4 was inaccessible during the Third Quarter 2004 monitoring event.
During First semi-annual 2009 event SOMA-5 had insufficient groundwater for sampling

Table 7
Free Product Removal Log
Former Glovatorium Site
3815 Broadway, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
SOMA-4			
2002			
31-Jan-2002	11.30	8.80	2.50
10-Apr-2002	12.45	9.58	2.87
29-Apr-2002	13.00	9.80	3.20
10-Sep-2002	16.75	10.26	6.49
19-Sep-2002	16.32	10.64	5.68
27-Sep-2002	16.59	10.65	5.94
3-Oct-2002	16.95	11.65	5.30
7-Oct-2002	17.40	11.01	6.39
8-Oct-2002	17.11	10.75	6.36
14-Oct-2002	17.51	10.53	6.98
25-Oct-2002	16.90	10.96	5.94
1-Nov-2002	15.59	11.70	3.89
14-Nov-2002	16.24	11.20	5.04
20-Nov-2002	13.44	11.90	1.54
15-Dec-2002	12.73	12.10	0.63
2003			
18-Jul-2003	17.70	7.20	10.50
2004			
28-Jan-2004	12.00	2.90	9.10
2005			
29-Jun-2005	10.40	10.10	0.30
18-Jul-2005	10.35	9.90	0.45
25-Jul-2005	10.75	10.00	0.75
1-Aug-2005	10.87	9.25	1.62
24-Aug-2005	13.47	9.95	3.52
31-Aug-2005	11.15	10.01	1.14
6-Sep-2005	12.98	10.78	2.20
12-Sep-2005	11.15	9.10	2.05
19-Sep-2005	12.90	10.80	2.10
5-Oct-2005	12.80	10.85	1.95
2006			
4-Jan-2006	12.50	8.60	3.90
12-Jan-2006	13.10	10.30	2.80
18-Jan-2006	13.64	10.50	3.14
24-Jan-2006	9.20	9.19	0.01
24-Jan-2006	began extracting free product using GeoTech pump		
26-Jan-2006	9.67	9.66	0.01
13-Feb-2006	10.24	10.23	0.01
27-Feb-2006	9.72	9.70	0.02
10-Mar-2006	8.90	8.70	0.20
20-Mar-2006	7.80	7.70	0.10
30-Mar-2006	8.30	8.20	0.10

Table 7
Free Product Removal Log
Former Glovatorium Site
3815 Broadway, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
SOMA-4			
2006			
6-Apr-2006	7.01	6.65	0.36
18-Apr-2006	moved GeoTech pump from SOMA-4 to B-8		
1-May-2006	7.60	7.56	0.04
10-May-2006	8.64	8.63	0.01
22-May-2006	8.53	8.40	0.13
1-Jun-2006	8.64	8.61	0.03
7-Jun-2006	8.86	8.82	0.04
19-Jun-2006	9.39	9.38	0.01
27-Jun-2006	10.54	10.46	0.08
13-Jul-2006	10.75	10.15	0.60
24-Jul-2006	11.05	10.16	0.89
3-Aug-2006	12.02	10.32	1.70
14-Aug-2006	13.08	9.88	3.20
14-Aug-2006	began extracting free product using GeoTech pump		
25-Aug-2006	13.95	10.70	3.25
28-Aug-2006	11.50	10.73	0.77
9-Sep-2006	14.23	10.75	3.48
13-Sep-2006	12.95	10.70	2.25
27-Sep-2006	15.78	11.00	4.78
4-Oct-2006	14.61	11.26	3.35
11-Oct-2006	14.25	10.75	3.50
1-Nov-2006	17.23	10.92	6.31
22-Nov-2006	14.98	10.53	4.45
30-Nov-2006	15.16	10.29	4.87
8-Dec-2006	13.54	11.30	2.24
11-Dec-2006	12.24	10.66	1.58
2007			
8-Jan-2007	11.15	10.78	0.37
12-Jan-2007	10.79	10.38	0.41
16-Jan-2007	11.00	11.00	0.00
24-Jan-2007	11.10	10.83	0.27
31-Jan-2007	11.02	10.44	0.58
8-Feb-2007	11.50	10.64	0.86
14-Feb-2007	9.60	9.25	0.35
22-Feb-2007	9.94	9.81	0.13
9-Mar-2007	9.73	9.53	0.20
16-Mar-2007	10.02	10.01	0.01
22-Mar-2007	9.93	9.91	0.02
26-Mar-2007	10.67	10.67	0.00
26-Mar-2007	Stopped extracting free product from well SOMA-4.		

Table 7
Free Product Removal Log
Former Glovatorium Site
3815 Broadway, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
SOMA-4			
2007			
4-Apr-2007	10.56	10.39	0.17
9-Apr-2007	10.71	10.60	0.11
17-May-2007	16.05	15.32	0.73
21-May-2007	16.06	15.30	0.76
31-May-2007	16.31	15.31	1.00
8-Jun-2007	16.73	16.09	0.64
11-Jun-2007	16.85	16.02	0.83
20-Jun-2007	16.44	15.62	0.82
29-Jun-2007	16.63	15.90	0.73
2-Jul-2007	16.73	16.15	0.58
12-Jul-2007	17.30	16.64	0.66
12-Jul-2007	Installed new GeoTech pump system in SOMA-4 and began extraction of free product from both wells.		
20-Jul-2007	16.94	-	0.00
25-Jul-2007	16.61	16.58	0.03
7-Aug-2007	18.52	18.49	0.03
7-Aug-2007	FP recovery pump in SOMA-4 well not operating due to unknown internal fault; removed and returned to supplier for repair.		
16-Aug-2007	17.65	-	0.00
22-Aug-2007	18.04	-	0.00
30-Aug-2007	18.21	-	0.00
7-Sep-2007	17.96	-	0.00
14-Sep-2007	18.05	-	0.00
21-Sep-2007	17.90	-	-
29-Nov-2007	17.54	-	-
21-Dec-2007	17.04	-	-
2008			
4-Jan-2008	15.94	15.84	0.10
11-Jan-2008	15.23	14.72	0.51
14-Jan-2008	15.48	15.00	0.48
22-Jan-2008	15.79	15.35	0.44
23-Jan-2008	Geopump serviced by EI		
29-Jan-2008	15.66	15.54	0.12
4-Feb-2008	14.75	14.80	0.05
7-Feb-2008	14.95	14.92	0.03
12-Feb-2008	15.75	15.72	0.03
26-Feb-2008	16.19	16.02	0.17

Table 7
Free Product Removal Log
Former Glovatorium Site
3815 Broadway, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
SOMA-4			
2008			
4-Mar-2008	16.27	16.13	0.14
17-Mar-2008	16.65	16.56	0.09
25-Mar-2008	16.97	16.88	0.09
5-Aug-2008	13.95	13.55	0.40
21-Aug-2008	13.82	13.22	0.60
2-Sep-2008	Begin MPE Pilot Test		
11-Sep-2008	14.00	13.60	0.40
19-Sep-2008	14.25	13.40	0.85
26-Sep-2008	14.01	13.10	0.91
2-Oct-2008	14.00	13.00	1.00
9-Oct-2008	14.00	12.95	1.05
24-Oct-2008	13.20	13.09	0.11
No FP observed since then			
B-8			
2001			
18-Oct-2001	12.31	10.21	2.10
2002			
31-Jan-2002	6.79	6.29	0.50
10-Apr-2002	8.22	8.08	0.14
29-Apr-2002	8.55	8.45	0.10
3-Oct-2002	10.40	9.64	0.76
7-Oct-2002	10.37	8.79	1.58
8-Oct-2002	10.28	9.68	0.60
14-Oct-2002	10.30	9.69	0.61
22-Oct-2002	10.39	9.70	0.69
2003			
18-Jul-2003	9.40	9.17	0.23
2005			
29-Jun-2005	11.50	11.25	0.25
18-Jul-2005	10.90	10.10	0.80
25-Jul-2005	10.92	10.20	0.72
1-Aug-2005	10.85	9.85	1.00
24-Aug-2005	10.35	10.10	0.25
31-Aug-2005	10.48	10.10	0.38
6-Sep-2005	10.86	10.59	0.27
12-Sep-2005	10.59	10.00	0.59
19-Sep-2005	11.20	10.60	0.60
5-Oct-2005	11.30	10.50	0.80
2006			
4-Jan-2006	9.50	8.00	1.50
12-Jan-2006	11.40	10.20	1.20
18-Jan-2006	11.93	11.00	0.93
24-Jan-2006	8.65	8.65	0.00
26-Jan-2006	8.72	8.70	0.02
13-Feb-2006	8.82	8.59	0.23
27-Feb-2006	8.81	8.61	0.20
10-Mar-2006	7.45	6.85	0.60
20-Mar-2006	7.90	7.20	0.70
30-Mar-2006	7.88	7.00	0.88

Table 7
Free Product Removal Log
Former Glovatorium Site
3815 Broadway, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
B-8			
2006			
6-Apr-2006	7.91	7.90	0.01
18-Apr-2006	began extracting free product using GeoTech pump		
1-May-2006	8.34	8.31	0.03
22-May-2006	9.51	8.92	0.59
1-Jun-2006	9.81	9.30	0.51
7-Jun-2006	10.24	9.51	0.73
14-Jun-2006	10.58	9.73	0.85
27-Jun-2006	9.04	8.92	0.12
27-Jun-2006	removed GeoTech pump from well		
13-Jul-2006	9.61	9.30	0.31
24-Jul-2006	9.70	9.26	0.44
3-Aug-2006	10.01	9.05	0.96
14-Aug-2006	10.41	9.69	0.72
25-Aug-2006	10.60	9.64	0.96
28-Aug-2006	10.62	9.80	0.82
7-Sep-2006	10.68	9.73	0.95
13-Sep-2006	10.65	9.78	0.87
27-Sep-2006	11.03	10.23	0.80
4-Oct-2006	11.00	10.20	0.80
11-Oct-2006	10.68	9.73	0.95
1-Nov-2006	11.39	10.24	1.15
22-Nov-2006	11.53	9.78	1.75
30-Nov-2006	11.64	9.25	2.39
8-Dec-2006	11.53	9.76	1.77
11-Dec-2006	11.44	9.68	1.76
2007			
8-Jan-2007	11.56	9.33	2.23
12-Jan-2007	11.58	9.33	2.25
16-Jan-2007	11.59	9.49	2.10
24-Jan-2007	11.77	9.70	2.07
31-Jan-2007	11.76	9.62	2.14
8-Feb-2007	11.92	9.71	2.21
14-Feb-2007	10.91	7.61	3.30
22-Feb-2007	11.46	8.54	2.92
9-Mar-2007	11.34	8.20	3.14
16-Mar-2007	11.53	8.60	2.93
22-Mar-2007	11.72	8.71	3.01
26-Mar-2007	11.71	8.81	2.90
26-Mar-2007	Started extracting free product from well B-8. Moved GeoTech pump from SOMA-4 to B-8		

Table 7
Free Product Removal Log
Former Glovatorium Site
3815 Broadway, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
B-8			
4-Apr-2007	10.71	9.67	1.04
9-Apr-2007	10.83	9.91	0.92
17-May-2007	13.98	13.22	0.76
21-May-2007	13.98	13.20	0.78
31-May-2007	14.78	13.90	0.88
8-Jun-2007	15.44	14.72	0.72
11-Jun-2007	15.50	14.80	0.70
20-Jun-2007	15.43	14.80	0.63
29-Jun-2007	15.20	15.15	0.05
2-Jul-2007	15.32	15.29	0.03
12-Jul-2007	16.03	15.92	0.11
20-Jul-2007	15.95	15.85	0.10
25-Jul-2007	15.90	15.82	0.08
7-Aug-2007	17.18	17.12	0.06
16-Aug-2007	16.87	-	0.00
22-Aug-2007	17.16	-	0.00
30-Aug-2007	17.68	-	0.00
7-Sep-2007	17.10	-	0.00
14-Sep-2007	17.09	-	0.00
21-Sep-2007	17.00	-	-
29-Nov-2007	16.47	-	-
21-Dec-2007	14.18	-	-
2008			
4-Jan-2008	13.69	-	-
11-Jan-2008	10.69	10.68	0.01
14-Jan-2008	11.25	11.23	0.02
22-Jan-2008	13.18	-	0.00
23-Jan-2008	Geopump serviced by EI		
29-Jan-2008	10.68	-	0.00
4-Feb-2008	10.09	-	0.00
7-Feb-2008	10.26	10.24	0.02
12-Feb-2008	11.24	11.21	0.03
26-Feb-2008	10.85	NA	0.00
4-Mar-2008	12.97	NA	0.00
17-Mar-2008	14.92	NA	0.00
25-Mar-2008	15.41	NA	NA
5-Aug-2008	13.19	NA	NA
21-Aug-2008	13.02	NA	NA
No FP observed since then			

Table 7
Free Product Removal Log
Former Glovatorium Site
3815 Broadway, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
B-10			
20-Feb-2008	11.75	8.99	2.76
26-Feb-2008	9.94	8.37	1.57
4-Mar-2008	9.23	9.21	0.02
17-Mar-2008	9.9	9.87	0.03
25-Mar-2008	10.15	10.12	0.03
5-Aug-2008	11.03	10.96	0.07
21-Aug-2008	11.03	10.86	0.17
2-Sep-2008	Begin MPE Pilot Test		
3-Sep-2008	11.51	11.33	0.18
11-Sep-2008	13.93	12.55	1.38
19-Sep-2008	12.87	12.10	0.77
24-Oct-2008	11.33	NA	NA
No FP observed since then			
SOMA-2			
20-Feb-2008	10	9.29	0.71
25-Mar-2008	10.67	10.02	0.65
5-Aug-2008	11.38	10.84	0.46
21-Aug-2008	11.36	10.76	0.6
2-Sep-2008	Begin MPE Pilot Test		
3-Sep-2008	11.62	11.3	0.32
5-Sep-2008	11.77	11.42	0.35
24-Sep-2008	12.87	12.25	0.62
30-Sep-2008	12.6	11.9	0.7
6-Oct-2008	12.32	11.66	0.66
16-Oct-2008	12.6	11.85	0.75
24-Oct-2008	11.42	NA	NA
No FP observed since then			

Table 8

MPE Pilot Test
Extraction Data and VOC Mass Removal Rate

3820 Manila Avenue
Oakland, California

WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL			
				minutes	minutes	SCFM	ft^3 of extracted air	Moles of extracted air	ppmv as hexane	mole %	lb VOC mass removal as hexane	lbs/min	lbs/day	
SOMA-4, 2	**START**	**12/17/2008**	1300	0										
B-10, 8	**STEADY-STATE**		1330	30	30	23	690	1.8206	5,769	0.0058	0.9054	0.0302	43	
			1430	60	90	23	1,380	3.6412	6,000	0.0060	1.8832	0.0314	45	
		12/18/2008	0830	1080	1,170	23	24,840	65.5409	6,000	0.0060	33.8978	0.0314	45	
	pause				1,170									
	restart		1330	0	1,170									
			1400	30	1,200	23	684	1.8059	10,300	0.0103	1.6034	0.0534	77	
			1430	30	1,230	24	722	1.9055	9,600	0.0096	1.5768	0.0526	76	
			1530	60	1,290	21	1,288	3.3992	5,375	0.0054	1.5749	0.0262	38	
	pause				1,290									
	restart	**12/19/2008**	900	0	1,290									
			1000	60	1,350	20	1,222	3.2247	6,300	0.0063	1.7512	0.0292	42	
			1100	60	1,410	20	1,217	3.2124	4,214	0.0042	1.1669	0.0194	28	
			1200	60	1,470	20	1,200	3.1662	3,475	0.0035	0.9484	0.0158	23	
			1300	60	1,530	19	1,140	3.0079	3,000	0.0030	0.7778	0.0130	19	
			1430	90	1,620	20	1,800	4.7493	3,035	0.0030	1.2425	0.0138	20	
			1500	30	1,650	19	570	1.5040	2,730	0.0027	0.3539	0.0118	17	
		12/22/2008	900	3960	5,610	21	83,160	219.4195	1,575	0.0016	29.7895	0.0075	11	
			1100	120	5,730	29	3,480	9.1821	1,898	0.0019	1.5023	0.0125	18	
			1230	90	5,820	30	2,700	7.1240	2,490	0.0025	1.5291	0.0170	24	
			1330	60	5,880	30	1,800	4.7493	2,095	0.0021	0.8577	0.0143	21	
			1400	60	5,940	30	1,800	4.7493	1,941	0.0019	0.7946	0.0132	19	
		12/23/2008	930	1170	7,110	30	35,100	92.6121	1,714	0.0017	13.6831	0.0117	17	
			1030	60	7,170	30	1,800	4.7493	2,560	0.0026	1.0480	0.0175	25	
			1130	60	7,230	30	1,800	4.7493	1,666	0.0017	0.6820	0.0114	16	
			1330	120	7,350	30	3,600	9.4987	1,805	0.0018	1.4779	0.0123	18	
		12/24/2008	1000	1230	8,580	30	37,135	97.9824	1,844	0.0018	15.5746	0.0127	18	
			1200	120	8,700	30	3,616	9.5411	1,680	0.0017	1.3817	0.0115	17	
	pause				8,700									
	restart	**12/29/2008**	1000	0	8,700									
			1100	60	8,760	30	1,825	4.8164	1,820	0.0018	0.7556	0.0126	18	
			1300	120	8,880	30	3,623	9.5593	1,653	0.0017	1.3621	0.0114	16	
			1400	60	8,940	31	1,864	4.9177	1,507	0.0015	0.6388	0.0106	15	
		12/30/2008	930	1170	10,110	31	36,413	96.0769	1,775	0.0018	14.7003	0.0126	18	change out 1
			1030	60	10,170	31	1,867	4.9270	1,815	0.0018	0.7708	0.0128	19	312.6431
			1130	60	10,230	31	1,864	4.9177	1,623	0.0016	0.6880	0.0115	17	adsorptive rate
			1230	60	10,290	31	1,864	4.9177	1,596	0.0016	0.6766	0.0113	16	0.3126431 31.26%
			1330	60	10,350	31	1,864	4.9177	1,470	0.0015	0.6231	0.0104	15	
		12/31/2008	1000	750	11,100	31	23,476	61.9407	1,645	0.0016	8.7831	0.0117	17	
			1200	120	11,220	31	3,749	9.8916	1,835	0.0018	1.5646	0.0130	19	
			1400	120	11,340	31	3,735	9.8540	1,644	0.0016	1.3964	0.0116	17	
			1500	60	11,400	31	1,867	4.9270	1,644	0.0016	0.6982	0.0116	17	
	pause				11,400									
B-10	**restart**	**1/5/2009**	800	0	11,400									
			830	30	11,430	35	1,035	2.7315	2,400	0.0024	0.5651	0.0188	27	
			900	30	11,460	33	975	2.5737	2,395	0.0024	0.5313	0.0177	26	
B-10, SOMA-2			1100	120	11,580	38	4,512	11.9051	1,070	0.0011	1.0981	0.0092	13	
					11,580									
		1/6/2009	1000	1380	12,960	38	52,701	139.0536	6,250	0.0063	74.9151	0.0543	78	

Table 8

MPE Pilot Test
Extraction Data and VOC Mass Removal Rate

3820 Manila Avenue
Oakland, California

WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL			
				minutes	minutes	SCFM	ft^3 of extracted air	Moles of extracted air	ppmv as hexane	mole %	lb VOC mass removal as hexane	lbs/min	lbs/day	
B-10.			1200	120	13,080	38	4,560	12.0317	5,290	0.0053	5.4864	0.0457	66	
SOMA-2, 4					13,080									
			1400	120	13,200	39	4,680	12.3483	7,345	0.0073	7.8182	0.0652	94	
		1/7/2009	700	1020	14,220	43	43,551	114.9101	7,215	0.0072	71.4664	0.0701	101	
	c/o		730	30	14,250	43	1,281	3.3797	7,215	0.0072	2.1020	0.0701	101	
					14,250									
B-10			930	0	14,250									
			1000	30	14,280	8	235	0.6206	7,390	0.0074	0.3953	0.0132	19	change out 2
			1030	30	14,310	30	911	2.4036	7,520	0.0075	1.5580	0.0519	75	487.6351
B-10, 8,			1130	60	14,370	30	1,822	4.8071	5,675	0.0057	2.3516	0.0392	56	adsorptive rate
SOMA-2, 4			1230	60	14,430	35	2,100	5.5401	7,360	0.0074	3.5148	0.0586	84	0.4876351 48.76%
			1430	120	14,550	38	4,583	12.0916	8,225	0.0082	8.5729	0.0714	103	
		1/8/2009	1000	1110	15,660	40	43,954	115.9744	9,725	0.0097	97.2207	0.0876	126	
			1200	120	15,780	36	4,320	11.3984	7,180	0.0072	7.0547	0.0588	85	
			1400	120	15,900	36	4,371	11.5331	6,885	0.0069	6.8447	0.0570	82	
B-8,					15,900									
SOMA-2, 4			1500	60	15,960	23	1,398	3.6883	5,040	0.0050	1.6024	0.0267	38	
		1/9/2009	1200	1260	17,220	24	30,274	79.8785	7,500	0.0075	51.6414	0.0410	59	
			1400	120	17,340	24	2,880	7.5989	5,370	0.0054	3.5175	0.0293	42	
			1500	60	17,400	35	2,100	5.5409	4,250	0.0043	2.0299	0.0338	49	
		1/12/2009	1030	4050	21,450	34	139,607	368.3572	8,690	0.0087	275.9283	0.0681	98	
	pause				21,450									
B-10	**restart**		1300	0	21,450									
			1400	60	21,510	33	1,958	5.1675	1,580	0.0016	0.7038	0.0117	17	
			1500	60	21,570	33	1,955	5.1580	1,300	0.0013	0.5780	0.0096	14	
		1/13/2009	1030	1170	22,740	33	38,120	100.5803	2,250	0.0023	19.5075	0.0167	24	
	pause				22,740									
	restart		1130	0	22,740									
			1230	60	22,800	29	1,721	4.5405	600	0.0006	0.2348	0.0039	6	
			1400	90	22,890	25	2,288	6.0371	601	0.0006	0.3128	0.0035	5	
	pause	**1/14/2009**	930	1170	24,060	25	29,745	78.4825	601	0.0006	4.0659	0.0035	5	
	pause				24,060									
	c/o	**1/15/2009**	730		24,060									
					24,060									
B-10, 8,	**restart**		1030	0	24,060									
SOMA-2, 4			1100	30	24,090	29	877	2.3132	3,471	0.0035	0.6921	0.0231	33	
			1130	30	24,120	29	873	2.3044	2,267	0.0023	0.4503	0.0150	22	
			1230	60	24,180	30	1,798	4.7437	2,002	0.0020	0.8186	0.0136	20	
		1/16/2009	1030	1320	25,500	30	39,553	104.3612	2,911	0.0029	26.1872	0.0198	29	
	pause		1100	30	25,530									
	restart		1230	0	25,530									
			1330	60	25,590	20	1,226	3.2345	4,550	0.0046	1.2686	0.0211	30	
	pause	**1/19/2009**	1000	912	26,502	20	18,633	49.1645	4,550	0.0046	19.2828	0.0211	30	
SOMA-4,	**restart**		1030	0	26,502									
B-8,			1200	90	26,592	23	2,101	5.5429	9,211	0.0092	4.4010	0.0489	70	
			1300	60	26,652	25	1,473	3.8878	10,000	0.0100	3.3513	0.0559	80	
	pause	**1/20/2009**	930	600	27,252	25	14,735	38.8780	10,000	0.0100	33.5128	0.0559	80	
SOMA-4, 2	**restart**		1000	0	27,252									
			1100	60	27,312	25	1,476	3.8952	7,830	0.0078	2.6290	0.0438	63	
			1200	60	27,372	25	1,471	3.8805	6,946	0.0069	2.3234	0.0387	56	
			1330	90	27,462	17	1,557	4.1082	7,400	0.0074	2.6205	0.0291	42	

Table 8

MPE Pilot Test
Extraction Data and VOC Mass Removal Rate

3820 Manila Avenue
Oakland, California

WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL			
				minutes	minutes	SCFM	ft^3 of extracted air	Moles of extracted air	ppmv as hexane	mole %	lb VOC mass removal as hexane	lbs/min	lbs/day	
B-10, 8, SOMA-2, 4	**pause**	**1/21/2009**	930	450	27,912	17	7,650	20.1847	7,400	0.0074	12.8754	0.0286	41	
	restart		1100	0	27,912									
			1300	120	28,032	33	3,960	10.4485	4,934	0.0049	4.4439	0.0370	53	
		1/22/2009	1000	1260	29,292	33	41,580	109.7098	3,775	0.0038	35.7001	0.0283	41	
			1100	60	29,352	33	1,980	5.2243	3,290	0.0033	1.4816	0.0247	36	
B-10			1200	60	29,412	35	2,100	5.5409	2,082	0.0021	0.9944	0.0166	24	
		1/23/2009	1100	1380	30,792	35	47,748	125.9835	808	0.0008	8.7747	0.0064	9	
			1200	60	30,852	39	2,321	6.1241	810	0.0008	0.4276	0.0071	10	
	pause	**1/26/2009**	1000	4200	35,052	39	164,015	432.7568	568	0.0006	21.1885	0.0050	7	
	restart		1030	0	35,052									
B-10, 8, SOMA-2, 4			1130	90	35,142	38	3,437	9.0687	8,360	0.0084	6.5352	0.0726	105	
			1230	60	35,202	38	2,287	6.0343	9,064	0.0091	4.7147	0.0786	113	
	pause	**1/27/2009**	1000	630	35,832	38	23,940	63.1662	9,064	0.0091	49.3528	0.0783	113	
	restart		1030	0	35,832									
	pause		1130	60	35,892	38	2,300	6.0689	13,000	0.0130	6.8008	0.1133	163	
	restart			0	35,892									
			1200	0	35,892									
			1300	60	35,952	39	2,343	6.1822	11,800	0.0118	6.2883	0.1048	151	
				0	35,952									
			1400	60	36,012	39	2,343	6.1822	9,500	0.0095	5.0626	0.0844	122	
		1/28/2009	1000	1200	37,212	40	48,000	126.6491	8,669	0.0087	94.6408	0.0789	114	change out 3
			1100	60	37,272	40	2,400	6.3325	7,980	0.0080	4.3559	0.0726	105	520.8498
		1/29/2009	730	1230	38,502	42	52,220	137.7844	13,444	0.0134	159.6747	0.1298	187	adsorptive rate
	pause c/o			0	38,502									0.5208498 52.08%
	restart		930	0	38,502									
			1030	60	38,562	39	2,348	6.1941	13,600	0.0136	7.2614	0.1210	174	
		1/30/2009	930	1380	39,942	38	52,802	139.3187	15,000	0.0150	180.1391	0.1305	188	
SOMA-2				0	39,942									
			1030	4440	44,382	17	77,394	204.2045	8,565	0.0086	150.7648	0.0340	49	
		2/2/2009	1230	60	44,442	17	1,042	2.7491	15,000	0.0150	3.5546	0.0592	85	
				0	44,442									change out 4
B-8, SOMA-2, 4			1330	60	44,502	39	2,330	6.1471	15,000	0.0150	7.9483	0.1325	191	582.3006
			1400	30	44,532	39	1,163	3.0678	15,000	0.0150	3.9667	0.1322	190	adsorptive rate
		2/3/2009	1500	1500	46,032	39	58,500	154.3536	15,000	0.0150	199.5792	0.1331	192	0.5823006 58.23%
B-10				0	46,032									
			1600	60	46,092	38	2,280	6.0158	3,918	0.0039	2.0317	0.0339	49	
		2/4/2009	1300	1260	47,352	36	45,360	119.6834	775	0.0008	7.9954	0.0063	9	
			1400	60	47,412	36	2,160	5.6992	653	0.0007	0.3208	0.0053	8	
			1500	60	47,472	36	2,160	5.6992	627	0.0006	0.3080	0.0051	7	
		2/5/2009	1330	1350	48,822	36	48,600	128.2322	795	0.0008	8.7876	0.0065	9	
			1430	60	48,882	36	2,160	5.6992	672	0.0007	0.3301	0.0055	8	
		2/6/2009	730	1020	49,902	36	37,224	98.2166	1,100	0.0011	9.3129	0.0091	13	
	pause c/o			0	49,902									
	restart		930	0	49,902									
			1000	30	49,932	35	1,054	2.7807	785	0.0008	0.1882	0.0063	9	
			1030	30	49,962	36	1,076	2.8385	617	0.0006	0.1510	0.0050	7	
		2/9/2009	1100	1410	51,372	36	50,562	133.4086	572	0.0006	6.5779	0.0047	7	
	pause			0	51,372									change out 5
	restart	**2/11/2009**	930	0	51,372									237.1978
	pause		1000	30	51,402	36	1,080	2.8496	572	0.0006	0.1405	0.0047	7	adsorptive rate
	restart		1130	0	51,402									0.2371978 23.72%
			1230	60	51,462	37	2,228	5.8785	2,000	0.0020	1.0135	0.0169	24	
		2/12/2009	930	1260	52,722	37	46,335	122.2561	429	0.0004	4.5210	0.0036	5	
				0	52,722									

Table 8

MPE Pilot Test
Extraction Data and VOC Mass Removal Rate

3820 Manila Avenue
Oakland, California

WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL			
				minutes	minutes	SCFM	ft^3 of extracted air	Moles of extracted air	ppmv as hexane	mole %	lb VOC mass removal as hexane	lbs/min	lbs/day	
B-8,			1030	60	52,782	26	1,557	4.1087	4,500	0.0045	1.5938	0.0266	38	
SOMA-2, 4		**2/13/2009**	900	1350	54,132	31	42,337	111.7075	7,840	0.0078	75.4928	0.0559	81	
				0	54,132									
B-8			1100	120	54,252	35	4,207	11.1016	4,100	0.0041	3.9235	0.0327	47	
		2/16/2009	1130	1410	55,662	35	49,438	130.4436	500	0.0005	5.6221	0.0040	6	
	pause			0	55,662									
	restart		1230	0	55,662									
			1330	60	55,722	35	2,104	5.5508	1,500	0.0015	0.7177	0.0120	17	
		2/17/2009	1000	1230	56,952	35	43,127	113.7912	322	0.0003	3.1584	0.0026	4	
			1100	60	57,012	35	2,104	5.5508	255	0.0003	0.1220	0.0020	3	
		2/18/2009	1000	1380	58,392	36	49,392	130.3207	240	0.0002	2.6961	0.0020	3	
SOMA-2				0	58,392									
			1200	120	58,512	31	3,749	9.8916	1,235	0.0012	1.0530	0.0088	13	
		2/19/2009	1000	1320	59,832	32	42,426	111.9427	775	0.0008	7.4783	0.0057	8	
B-10, 8,				0	59,832									
SOMA-2, 4			1100	60	59,892	28	1,686	4.4496	1,750	0.0018	0.6712	0.0112	16	
			1200	60	59,952	28	1,686	4.4496	2,082	0.0021	0.7986	0.0133	19	change out 5
		2/20/2009	1000	1320	61,272	29	38,501	101.5864	2,684	0.0027	23.5031	0.0178	26	237.1978
			1100	60	61,332	28	1,680	4.4328	3,520	0.0035	1.3450	0.0224	32	adsorptive rate
				0	61,332									0.2371978 23.72%
			1200	60	61,392	25	1,480	3.9063	2,330	0.0023	0.7846	0.0131	19	
				0	61,392									
		2/23/2009	1000	4200	65,592	25	105,000	277.0449	3,780	0.0038	90.2712	0.0215	31	
B-10				0	65,592									
			1200	120	65,712	21	2,520	6.6491	1,385	0.0014	0.7938	0.0066	10	
		2/24/2009	1000	1320	67,032	21	27,122	71.5608	242	0.0002	1.4928	0.0011	2	
			1100	60	67,092	19	1,141	3.0115	154	0.0002	0.0400	0.0007	1	
			1200	60	67,152	19	1,141	3.0115	152	0.0002	0.0395	0.0007	1	
		2/25/2009	1000	1320	68,472	17	23,053	60.8252	251	0.0003	1.3160	0.0010	1	
			1100	60	68,532	17	1,048	2.7648	787	0.0008	0.1876	0.0031	5	
			1200	60	68,592	17	1,046	2.7595	580	0.0006	0.1380	0.0023	3	
		2/26/2009	730	1170	69,762	19	22,256	58.7238	270	0.0003	1.3667	0.0012	2	
	pause c/o			0	69,762									
	restart		930	0	69,762									
			1030	60	69,822	19	1,148	3.0287	835	0.0008	0.2180	0.0036	5	
			1130	60	69,882	32	1,932	5.0980	1,200	0.0012	0.5273	0.0088	13	
B-10, 8,				0	69,882									
SOMA-2, 4		**2/27/2009**	1230	1500	71,382	32	48,304	127.4502	222	0.0002	2.4389	0.0016	2	
			1330	60	71,442	17	1,046	2.7595	760	0.0008	0.1808	0.0030	4	change out 6
			1430	60	71,502	17	1,044	2.7543	982	0.0010	0.2331	0.0039	6	491.7490
		3/2/2009	1030	4080	75,582	21	83,989	221.6065	2,721	0.0027	51.9779	0.0127	18	adsorptive rate
			1130	60	75,642	17	1,044	2.7543	4,091	0.0041	0.9713	0.0162	23	0.491749 49.17%
			1230	60	75,702	18	1,052	2.7754	2,185	0.0022	0.5227	0.0087	13	
		3/3/2009	1100	1350	77,052	17	22,950	60.5541	1,611	0.0016	8.4090	0.0062	9	
			1200	60	77,112	17	1,020	2.6913	1,020	0.0010	0.2366	0.0039	6	
		3/4/2009	1000	1320	78,432	18	23,760	62.6913	1,715	0.0017	9.2678	0.0070	10	
			1100	60	78,492	18	1,080	2.8496	2,023	0.0020	0.4969	0.0083	12	
			1200	60	78,552	18	1,080	2.8496	1,750	0.0018	0.4299	0.0072	10	
		3/5/2009	1000	1320	79,872	16	20,541	54.1972	1,120	0.0011	5.2324	0.0040	6	
			1100	60	79,932	16	934	2.4635	790	0.0008	0.1678	0.0028	4	
			1200	60	79,992	16	934	2.4635	784	0.0008	0.1665	0.0028	4	
		3/6/2009	1030	1350	81,342	16	21,008	55.4290	1,130	0.0011	5.3991	0.0040	6	
			1130	60	81,402	16	935	2.4682	828	0.0008	0.1762	0.0029	4	
		3/9/2009	1100	1410	82,812	16	21,983	58.0025	841	0.0008	4.2048	0.0030	4	

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MPE Pilot Test
Extraction Data and VOC Mass Removal Rate

3820 Manila Avenue
Oakland, California

WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL			
				minutes	minutes	SCFM	ft^3 of extracted air	Moles of extracted air	ppmv as hexane	mole %	lb VOC mass removal as hexane	lbs/min	lbs/day	
SOMA-2,				0	82,812									
B-10			1200	60	82,872	17	1,048	2.7648	3,754	0.0038	0.8947	0.0149	21	
		3/10/2009	1430	1590	84,462	17	27,663	72.9887	3,595	0.0036	22.6184	0.0142	20	
			1530	60	84,522	21	1,235	3.2589	5,233	0.0052	1.4700	0.0245	35	
B-10,				0	84,522									
SOMA-2, 4		**3/11/2009**	1530	1440	85,962	23	33,549	88.5189	5,054	0.0051	38.5637	0.0268	39	
			1630	60	86,022	25	1,473	3.8878	5,041	0.0050	1.6894	0.0282	41	
		3/12/2009	1000	0	86,022									
		3/13/2009	1100	2610	88,632	25	64,217	169.4392	7,362	0.0074	107.5268	0.0412	59	
SOMA-4				0	88,632									
			1200	60	88,692	17	1,044	2.7543	5,644	0.0056	1.3400	0.0223	32	
			1300	60	88,752	16	934	2.4635	5,260	0.0053	1.1170	0.0186	27	
		3/16/2009	1000	4140	92,892	11	45,815	120.8844	7,345	0.0073	76.5366	0.0185	27	
B-8,				0	92,892									
SOMA-2, 4			1100	60	92,952	16	939	2.4776	3,510	0.0035	0.7496	0.0125	18	
			1200	60	93,012	16	939	2.4776	2,970	0.0030	0.6343	0.0106	15	
		3/17/2009	1000	1320	94,332	16	20,541	54.1972	395	0.0004	1.8454	0.0014	2	
B-8,				0	94,332									
SOMA-2, 4			1100	60	94,392	17	1,042	2.7491	1,586	0.0016	0.3758	0.0063	9	
			1200	60	94,452	21	1,233	3.2528	3,216	0.0032	0.9017	0.0150	22	
		3/18/2009	1000	0	94,452									
		3/19/2009	1000	2760	97,212	27	73,832	194.8084	7,000	0.0070	117.5474	0.0426	61	
SOMA-4				0	97,212									
			1100	60	97,272	17	1,036	2.7337	5,070	0.0051	1.1947	0.0199	29	
			1200	60	97,332	17	1,036	2.7337	5,465	0.0055	1.2878	0.0215	31	
		3/20/2009	700	1140	98,472	17	19,909	52.5309	5,344	0.0053	24.1985	0.0212	31	
	pause c/o			0	98,472									
	restart		930	0	98,472									
			1030	60	98,532	17	1,046	2.7595	15,000	0.0150	3.5681	0.0595	86	change out 6
			1130	60	98,592	17	1,046	2.7595	9,000	0.0090	2.1408	0.0357	51	95.5977
		3/23/2009	1000	4230	102,822	17	73,874	194.9171	5,025	0.0050	84.4293	0.0200	29	adsorptive rate
			1100	60	102,882	25	1,482	3.9100	5,783	0.0058	1.9491	0.0325	47	0.0955977 9.56%
			1200	60	102,942	25	1,482	3.9100	5,354	0.0054	1.8045	0.0301	43	
				60	103,002	25	1,500	3.9578	5,000	0.0050	1.7058	0.0284	41	
	TOTAL				**103,002**		**2,762,147**	**7288**			**2727.97**	**0.0265**	**38.14**	
	MEDIAN					**29**			**2,726**	**0.0027**				

Notes

Q	volumetric flow rate		
SCFM	standard cubic feet per minute		DERIVATION OF MASS REMOVAL RATE
ft^3	cubic feet per minute		
VOC	volatile organic compounds	1716.7	ppmv as TPHss/1,000,000 = mole %
PID	photo-ionization detector	71.529167	ft3 of extracted air/(379 ft3 air/lb-mole air) = moles of extracted air
ppmv	parts per million vapor	2,592	(moles of extracted air)(mole %)(86.2 lb/lb-mole hexane) = lbs of VOC removed as hexane
			(lbs of VOC mass removed as hexane

Table 9

MPE Pilot Test
Mass Removal

Compound	Vapor Sample ID	Collection Date/Time	TPH-ss (ug/m^3)	Q (CFM)	System Operation Run Time (minutes/days)	Mass Removed (lbs)	Removal Rate (lbs/day)
TPH-ss	Effluent	1/7/09 @ 0700	nd	30	14,250 / 9.9	498.71	10.23
TPH-ss	Influent	1/7/09 @ 0720	3,800,000				
TPH-ss	Effluent	3/10/09 @ 1445	1800 [x]	26	70,212 / 48.76	432.2	8.86
TPH-ss	Influent	3/10/09 @ 1450	3,800,000				
		Total for TPH-ss			84,462 / 58.66	930.91	9.545 [a]

Compound	Vapor Sample ID	Collection Date/Time	USEPA TO-15							Q (CFM)	System Operation Run Time (minutes/days)	Mass Removed (lbs)	Mass Removal Rate (lbs/day)
			Benzene (ug/m^3)	PCE (ug/m^3)	TCE (ug/m^3)	1,1-DCA (ug/m^3)	cis 1,2-DCE (ug/m^3)	trans 1,2-DCE (ug/m^3)	Vinyl Chloride (ug/m^3)				
Chlorinated VOCs	Effluent	1/7/09 @ 0700	nd	nd	nd	nd	nd	nd	nd	30	14,250 / 9.9	0.98	0.02
Chlorinated VOCs	Influent	1/7/09 @ 0720	nd	nd	nd	nd	7500	nd	nd				
Chlorinated VOCs	Effluent	3/10/09 @ 1445	nd	nd	nd	nd	nd	nd	nd	26	70,212 / 48.76	8.3	0.17
Chlorinated VOCs	Influent	3/10/09 @ 1450	nd	55,000	nd	nd	18,000	nd	nd				
		Total for Chlorinated VOCs									84,462 / 58.66	9.28	0.10 [a]

Notes

CFM	cubic feet per minute
lbs/day	pounds per day
ug/m^3	micrograms per cubic meter
PCE	tetrachloroethene
TCE	trichloroethene
1,1-DCA	1,1-Dichloroethane
cis/tran 1,2-DCE	1,2-Dichloroethene
nd	not detected at or above detection limit
(a)	average value
x	Sample Chromatogram does not resemble Stoddard solvent standard pattern. Reported value due to individual peaks within stoddard solvent range

MPE System was shut down on the following

12/18/08	4 hours
12/18/08 to 12/19/08	maintenance
12/24/08 to 12/29/08	Christmas holiday
12/31/08 to 1/5/09	New Year Holiday
1/14/09 to 1/15/09	carbon change out
2/9/09 to 2/11/09	maintenance

the system was shut down for 2 to 4 hour intervals for carbon change-outs throughout the Pilot Test

DERIVATION OF MASS REMOVAL RATE

(**ug/m^3**) [(1mg/1000ug) ($1m^3$/1000 L)] = **mg/L**
(**mg/L**) (28.32 L/1 ft^3) ([Q} ft^3/min) = **mg/min**
(**mg/min**)(1g/1000mg)(1kg/1000g)(60min/1hr)(24hr/1day) = **kg/day**
(**kg/day**)(2.2lbs/1kg) = **lbs/day**

DERIVATION OF TOTAL MASS REMOVED

Elapsed time of test for analytical period = **days** (Table 8)
(mass removal rate [**lbs/day**])(total time of test [**days**]) = Total Removed (**lbs**)

FIGURES

N

approximate scale in feet

0 250 500

Figure 1: Site vicinity map.

SOMA ENVIRONMENTAL ENGINEERING, INC.

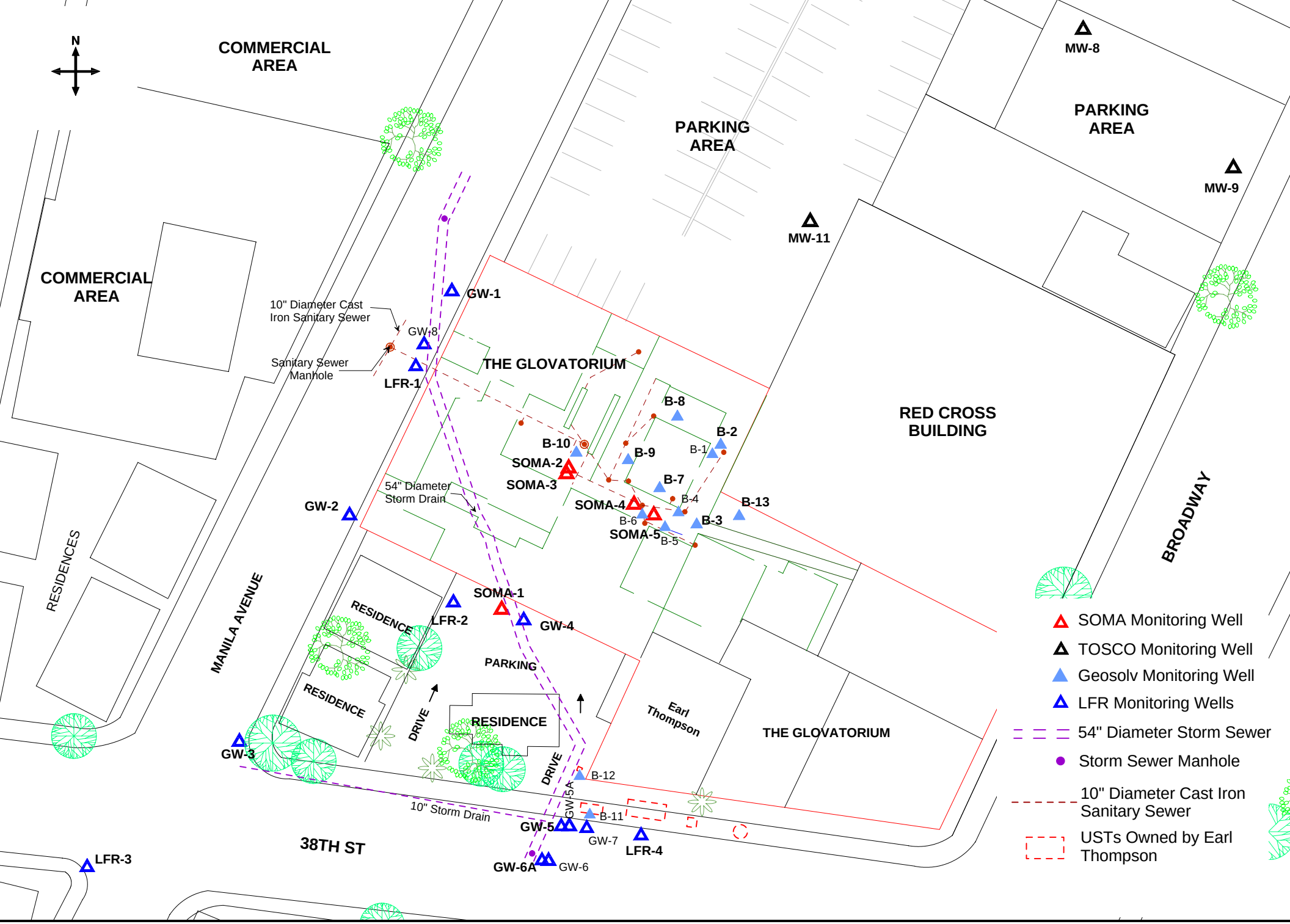


Figure 2: Map showing the approximate locations of groundwater monitoring wells.

ENVIRONMENTAL ENGINEERING, INC.

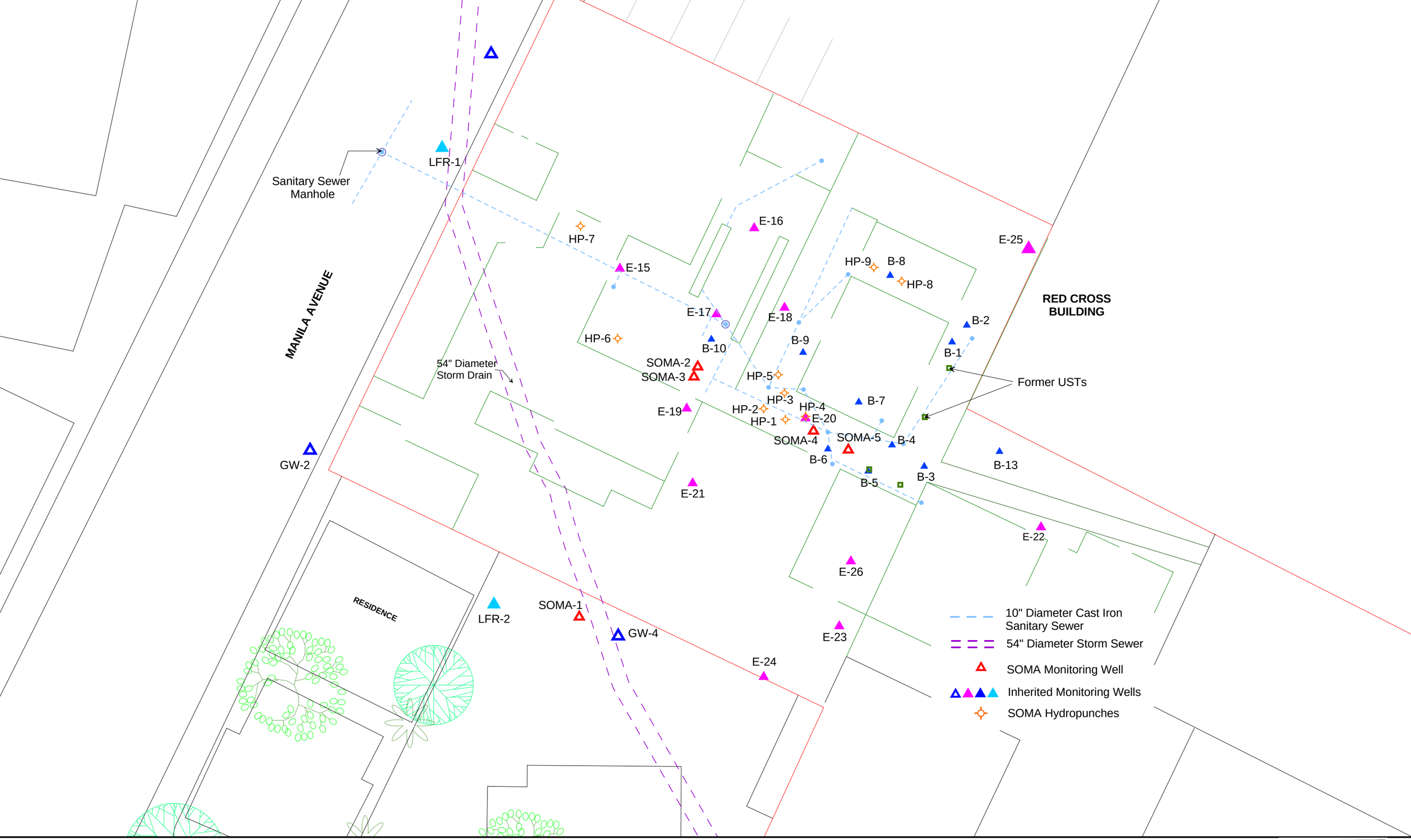


Figure 2a: Map showing the approximate locations of SOMA monitoring wells, SOMA hydropunches, inherited monitoring locations, within the former Glovatorium building.

SOMA ENVIRONMENTAL ENGINEERING, INC.

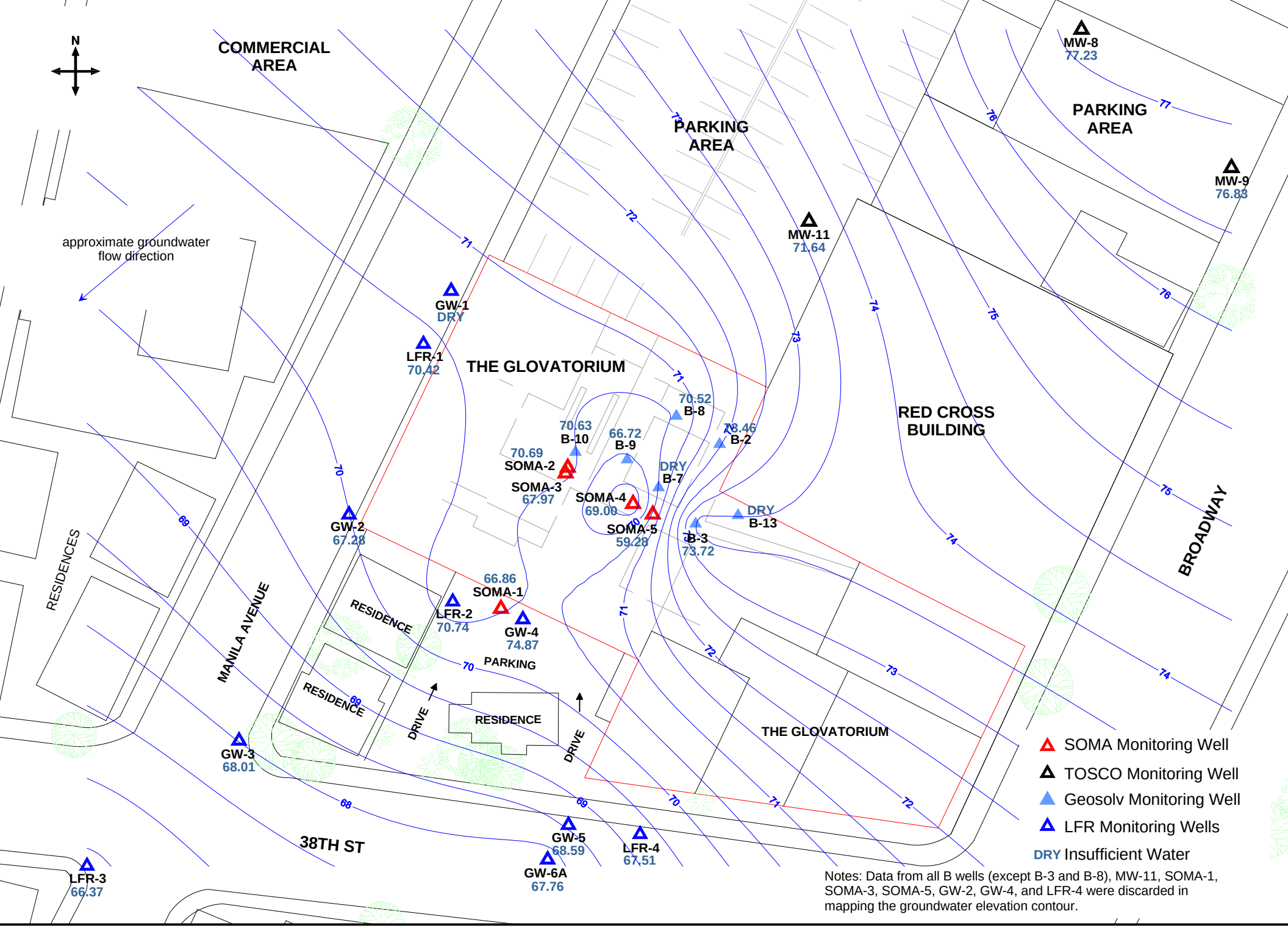


Figure 3: Groundwater elevation contour map in feet. February 9, 2009

ENVIRONMENTAL ENGINEERING, INC.

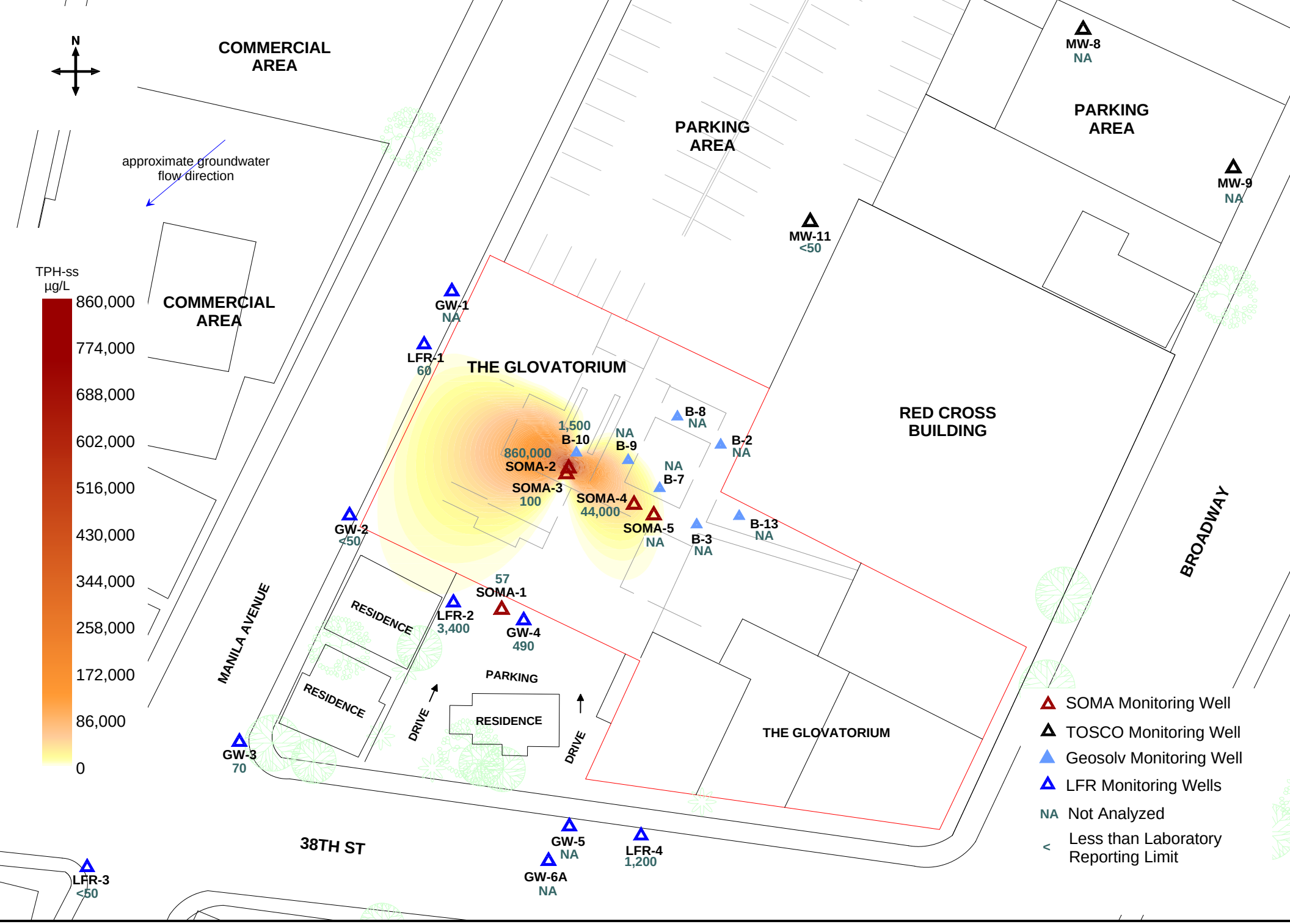


Figure 4: Contour map of TPH-ss concentrations in groundwater. February 9 and 10, 2009

ENVIRONMENTAL ENGINEERING, INC.

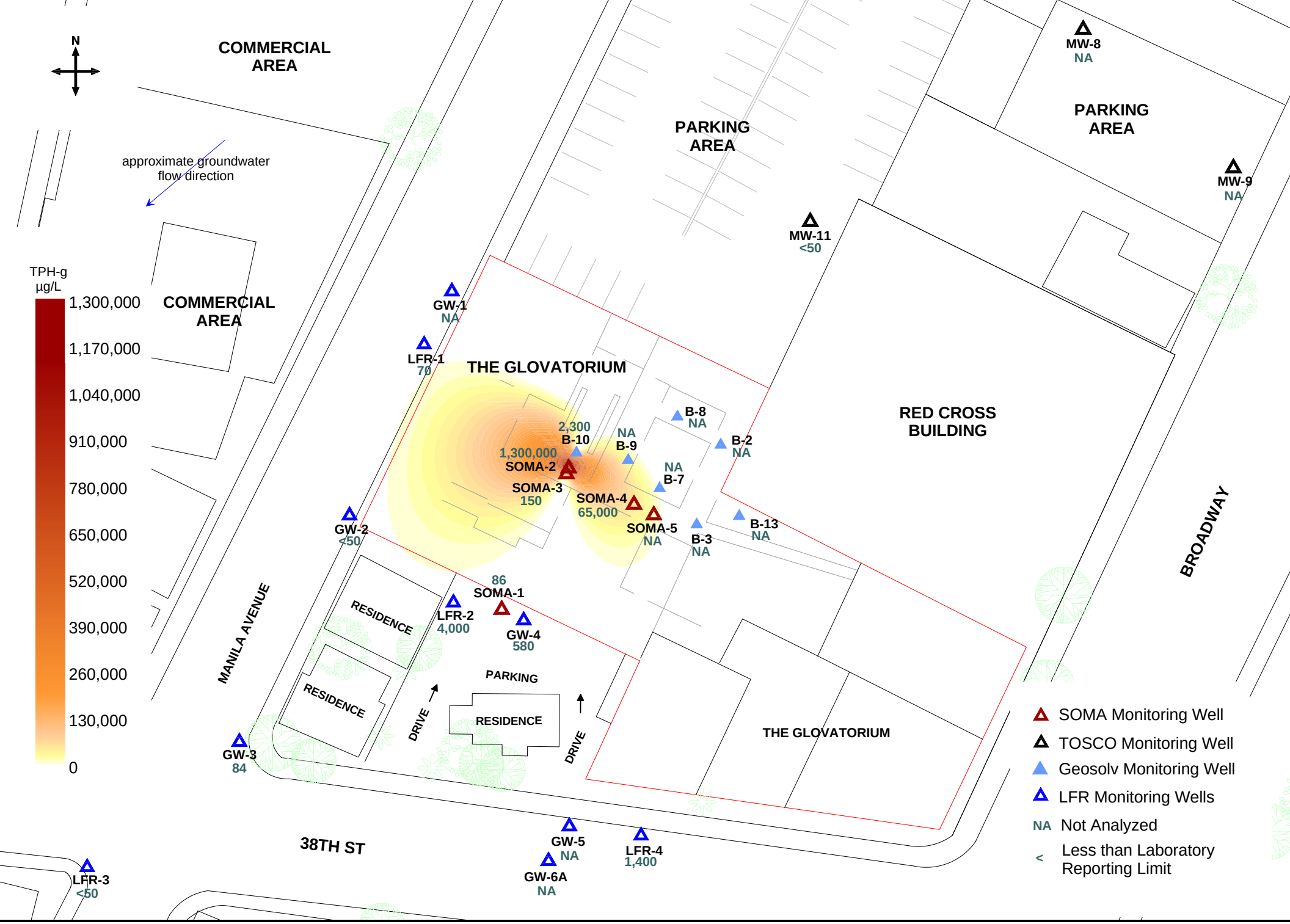
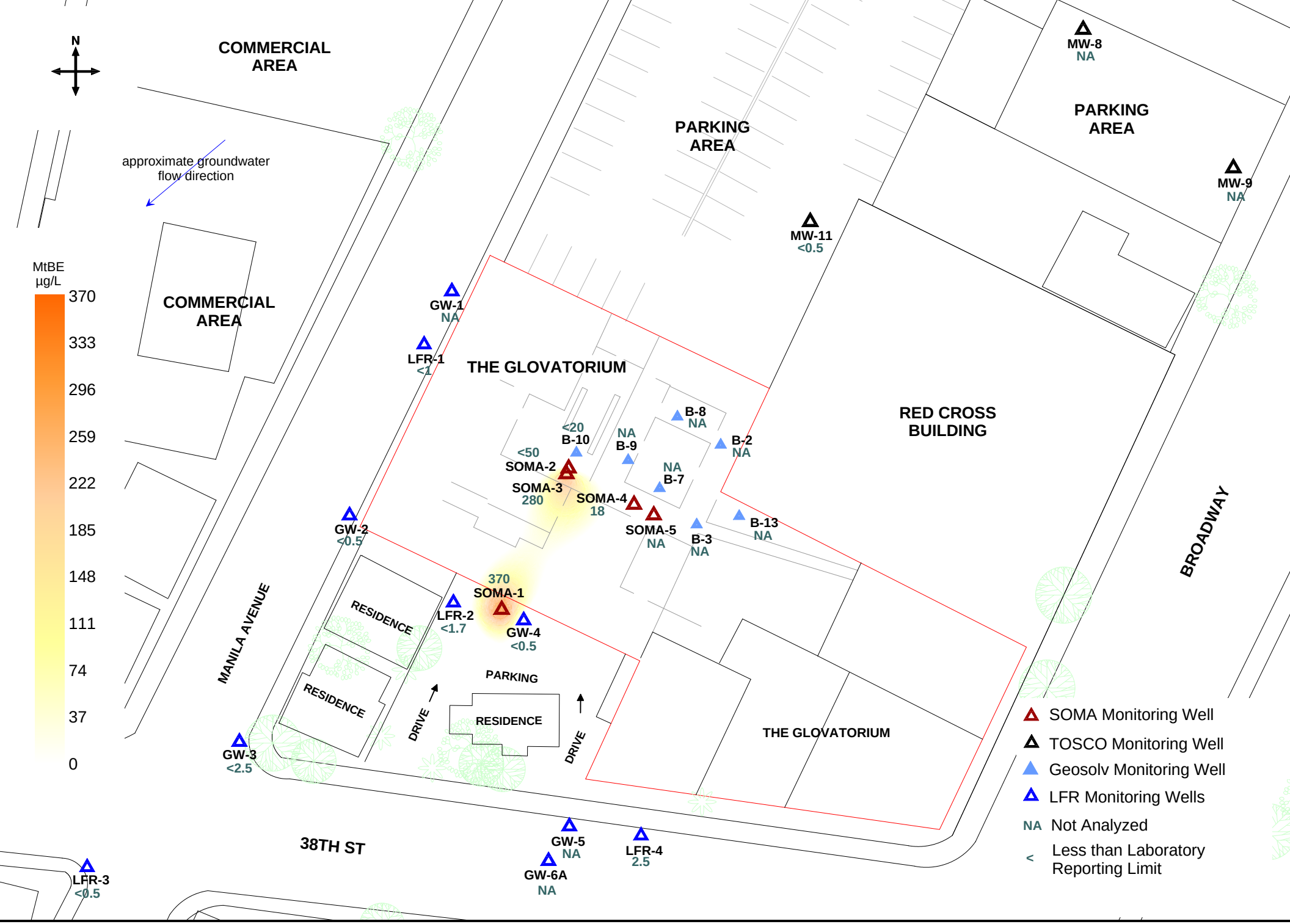


Figure 5: Contour map of TPH-g concentrations in groundwater. February 9 and 10, 2009

ENVIRONMENTAL ENGINEERING, INC.



approximate scale in feet

0 50 100

Figure 6: Contour map of MtBE concentrations in groundwater (EPA Method 8260B). February 9 and 10, 2009

ENVIRONMENTAL ENGINEERING, INC.

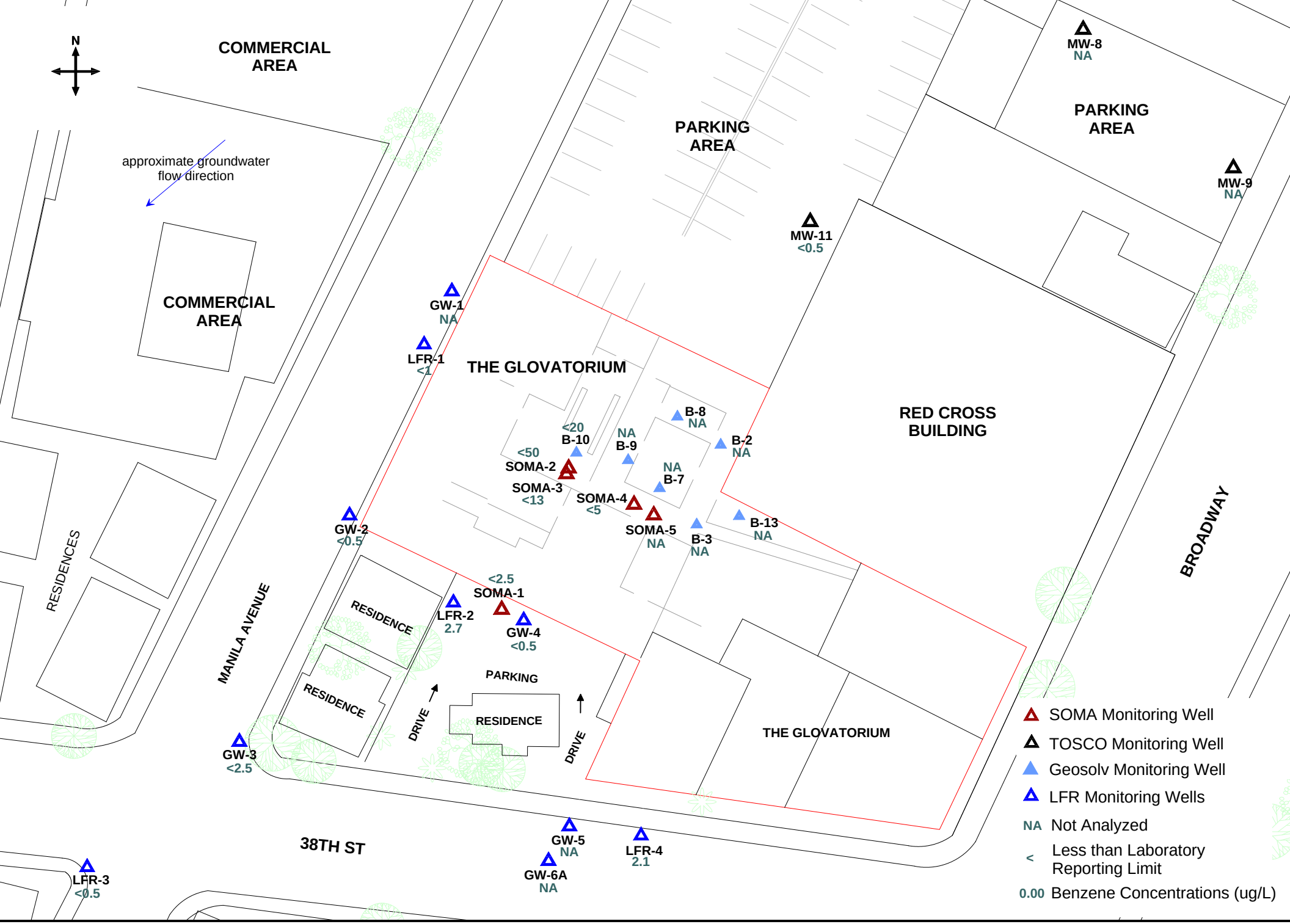


Figure 7: Map of benzene concentrations in groundwater. February 9 and 10, 2009

ENVIRONMENTAL ENGINEERING, INC.

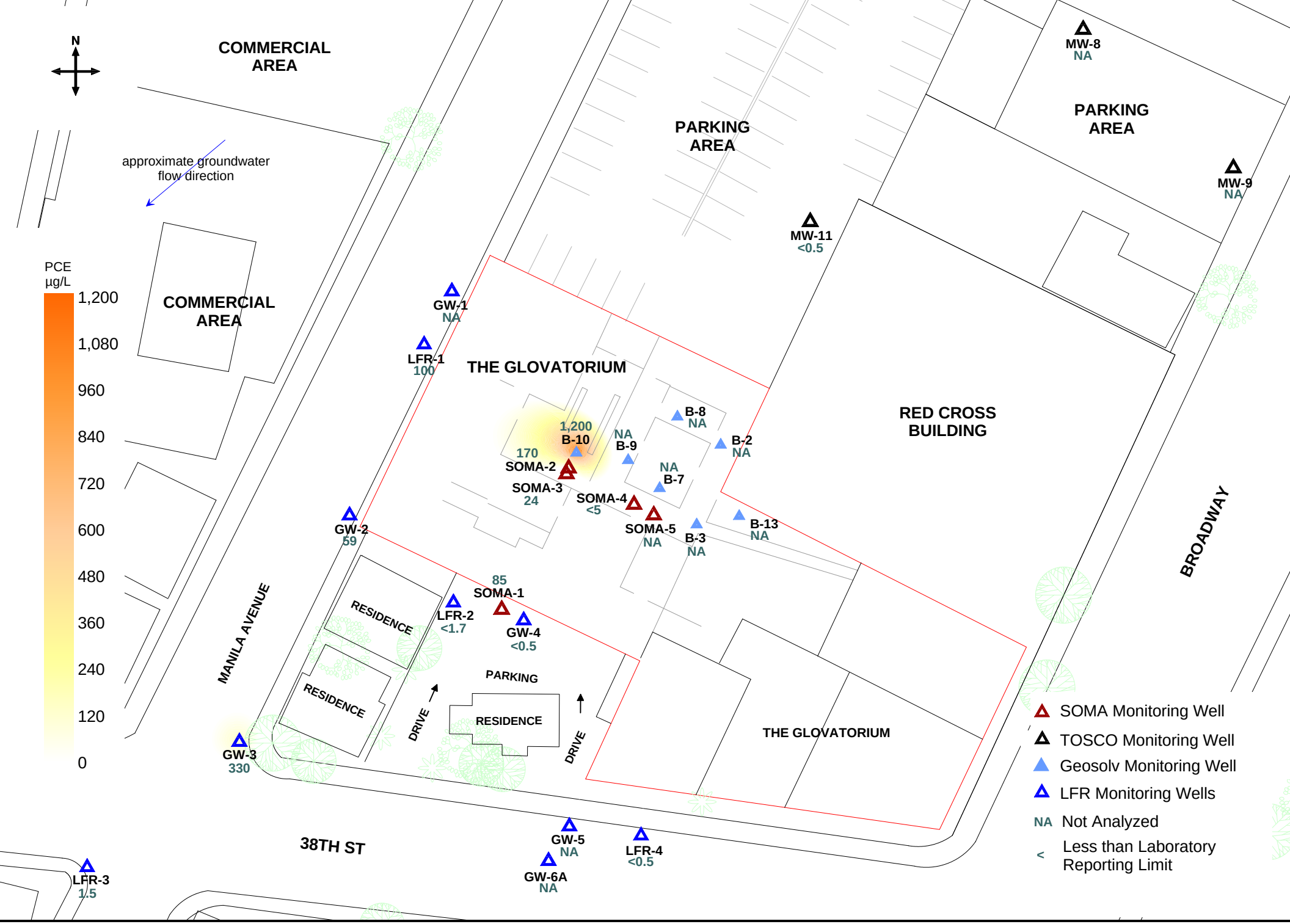


Figure 8: Contour map of PCE concentrations in groundwater. February 9 and 10, 2009

ENVIRONMENTAL ENGINEERING, INC.

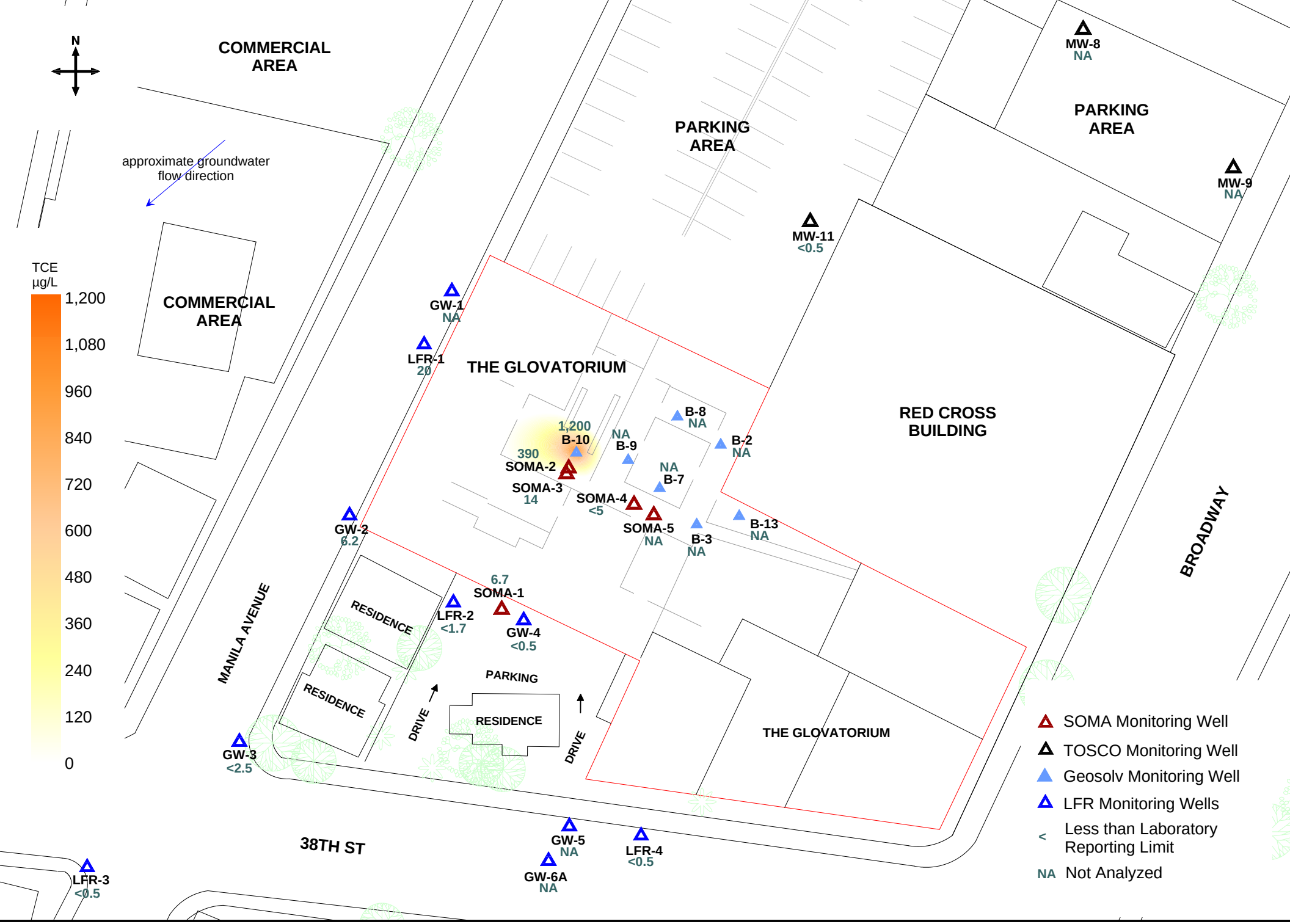


Figure 9: Contour map of TCE concentrations in groundwater. February 9 and 10, 2009

ENVIRONMENTAL ENGINEERING, INC.

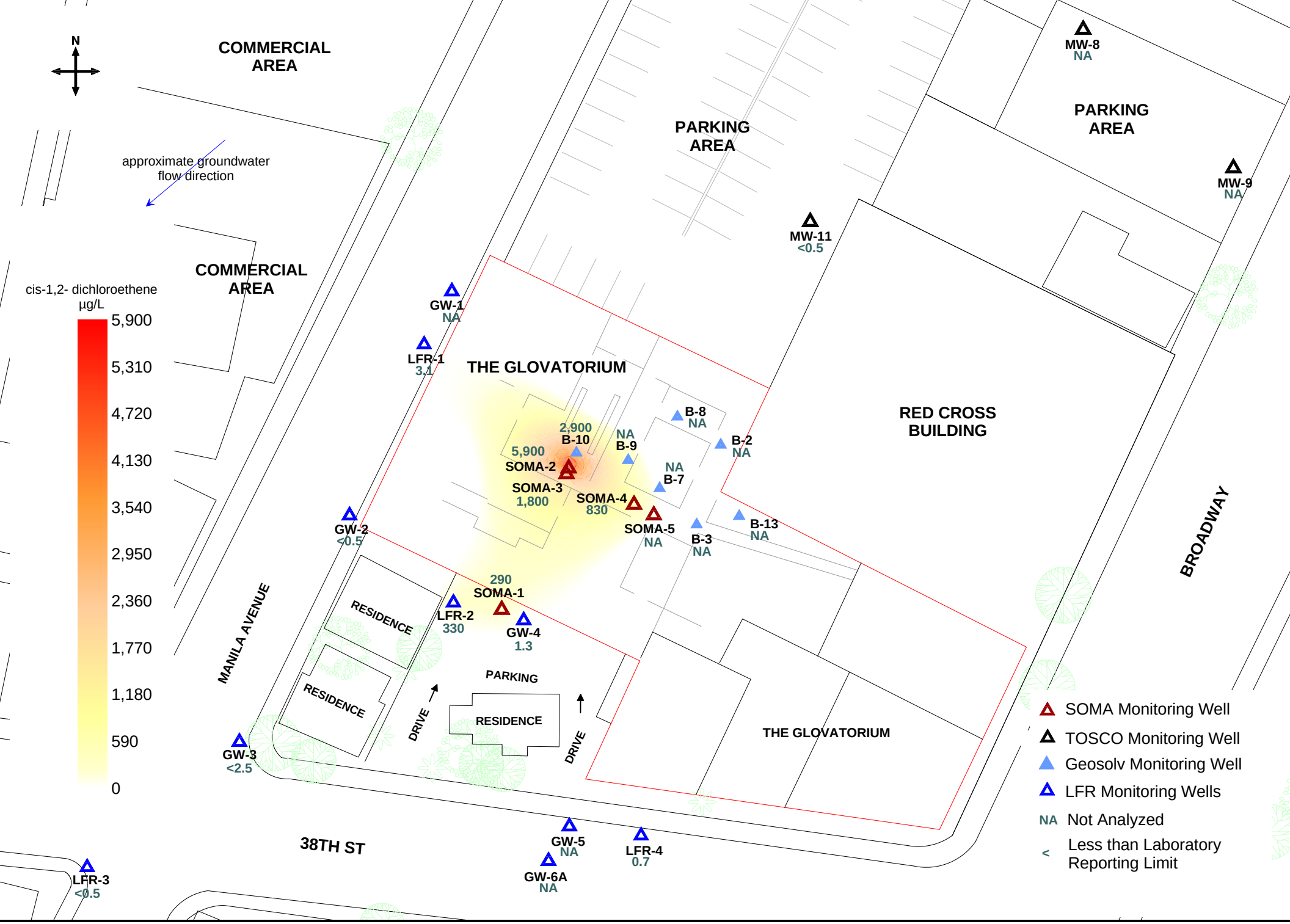
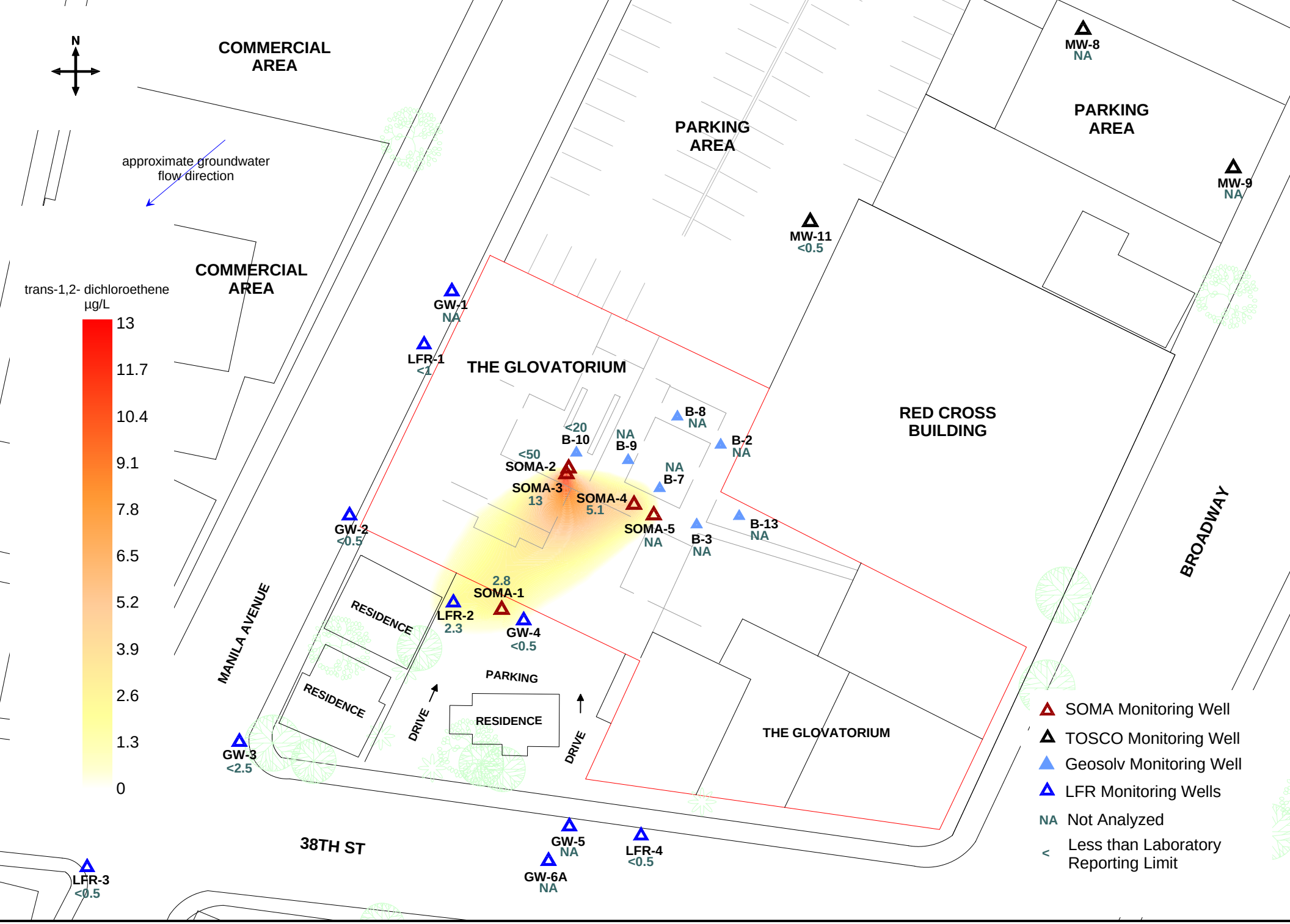


Figure 10: Contour map of cis-1,2-dichloroethene concentrations in groundwater. February 9 and 10, 2009

ENVIRONMENTAL ENGINEERING, INC.



approximate scale in feet

0 50 100

Figure 11: Contour map of trans-1,2-dichloroethene concentrations in groundwater. February 9 and 10, 2009

SOMA ENVIRONMENTAL ENGINEERING, INC.

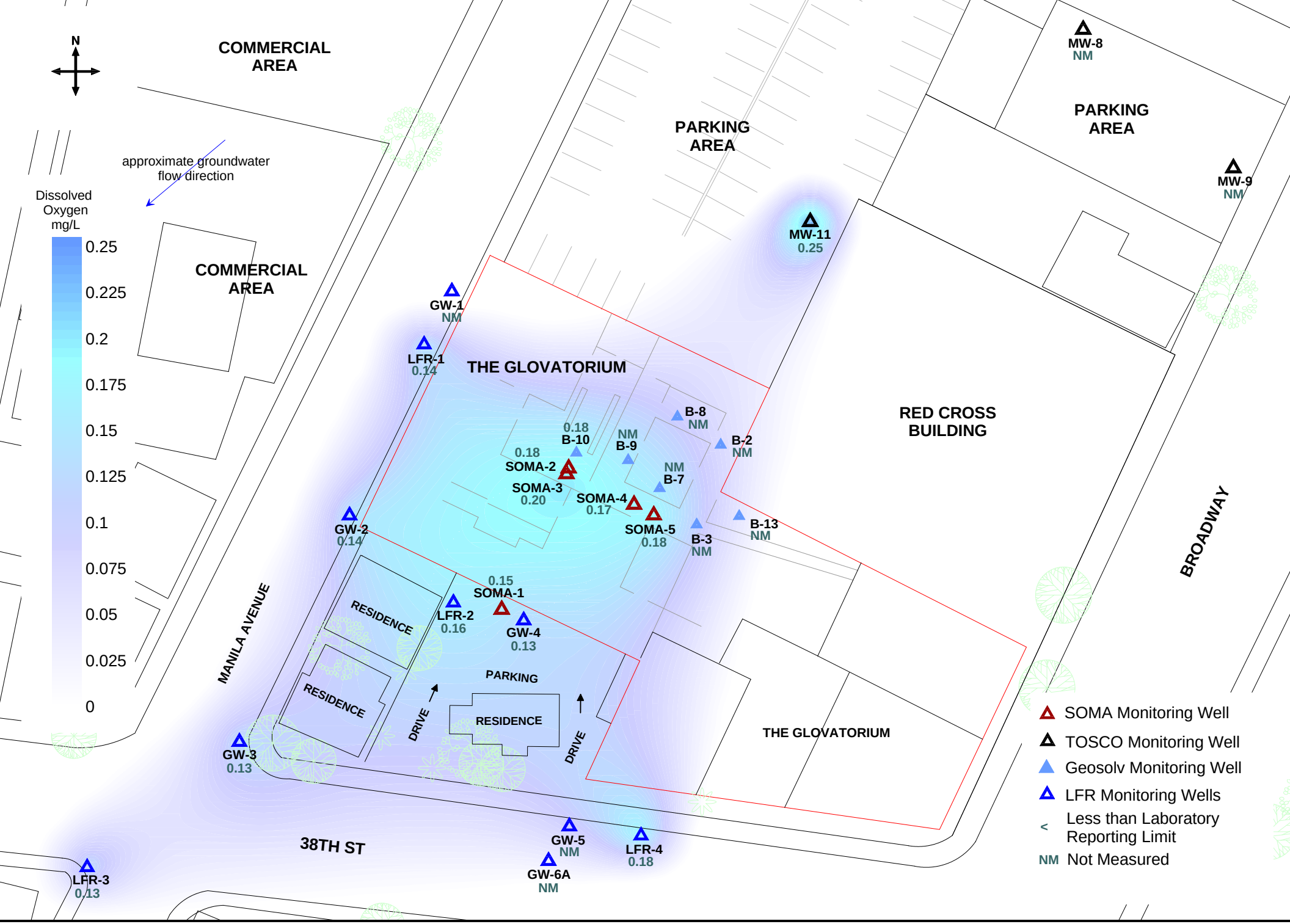


Figure 12: Contour map of dissolved oxygen concentrations in groundwater. February 9 and 10, 2009

SOMA ENVIRONMENTAL ENGINEERING, INC.

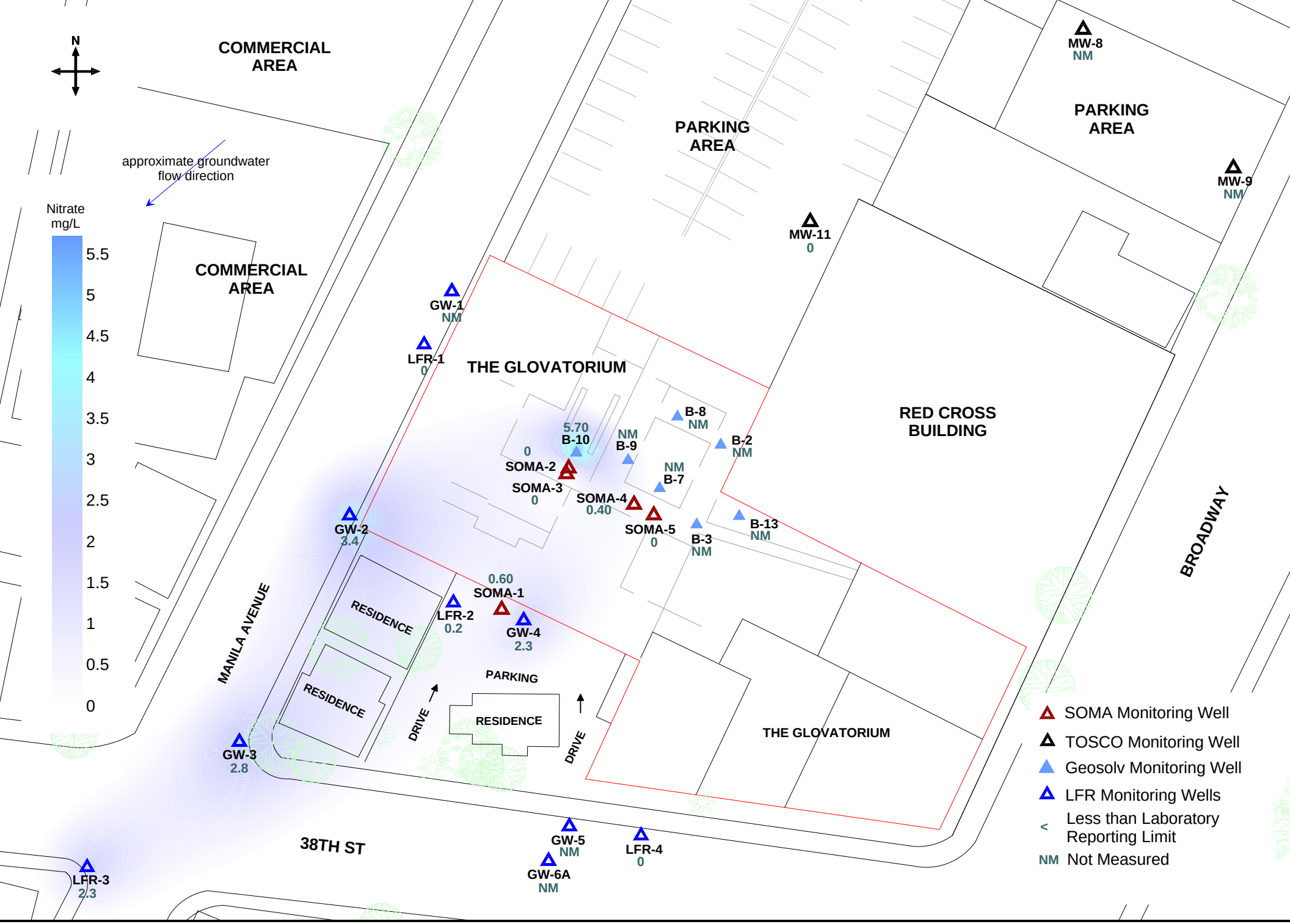


Figure 13: Contour map of nitrate concentrations in groundwater. February 9 and 10, 2009

SOMA ENVIRONMENTAL ENGINEERING, INC.

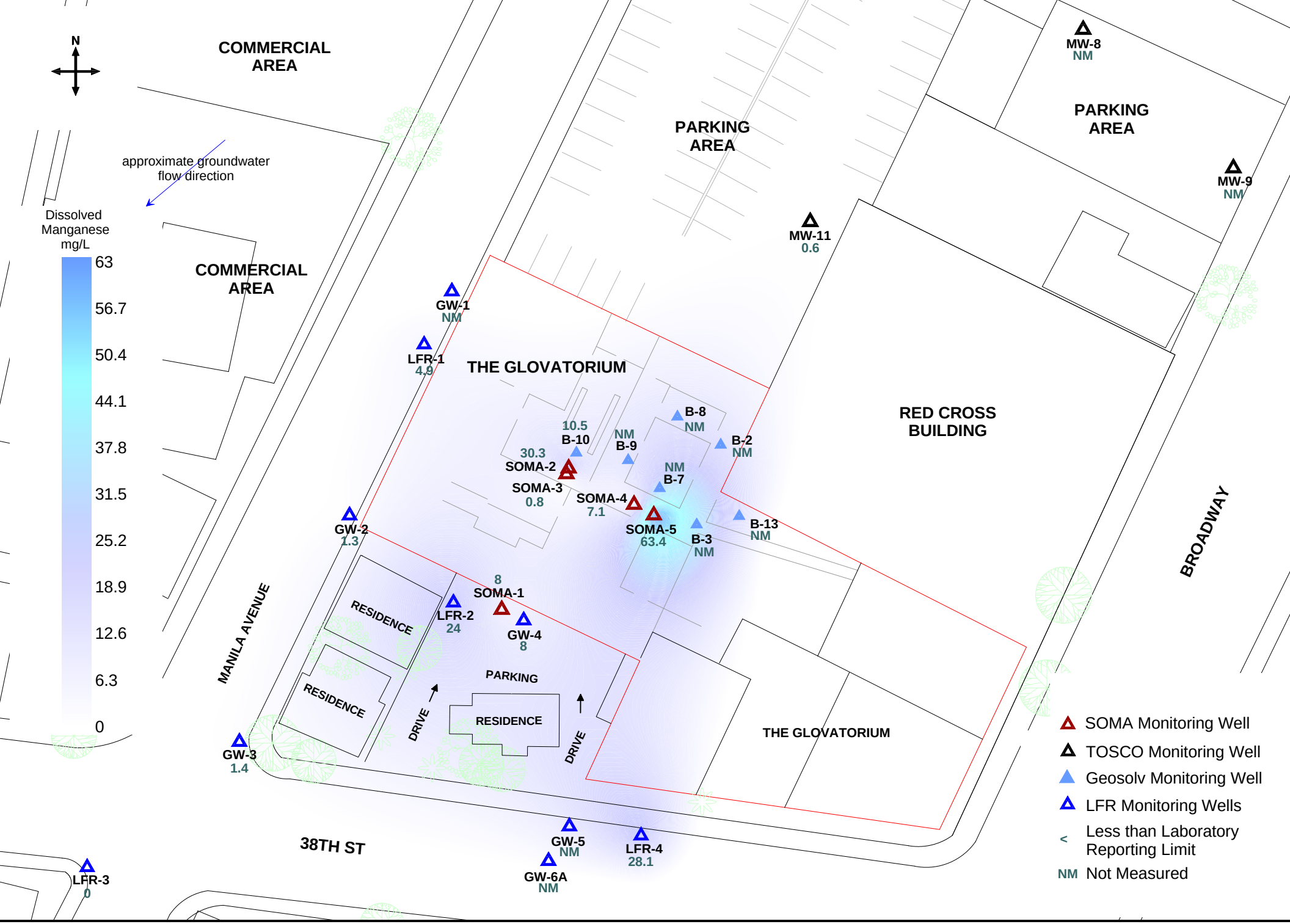


Figure 14: Contour map of dissolved manganese concentrations in groundwater. February 9 and 10, 2009

ENVIRONMENTAL ENGINEERING, INC.

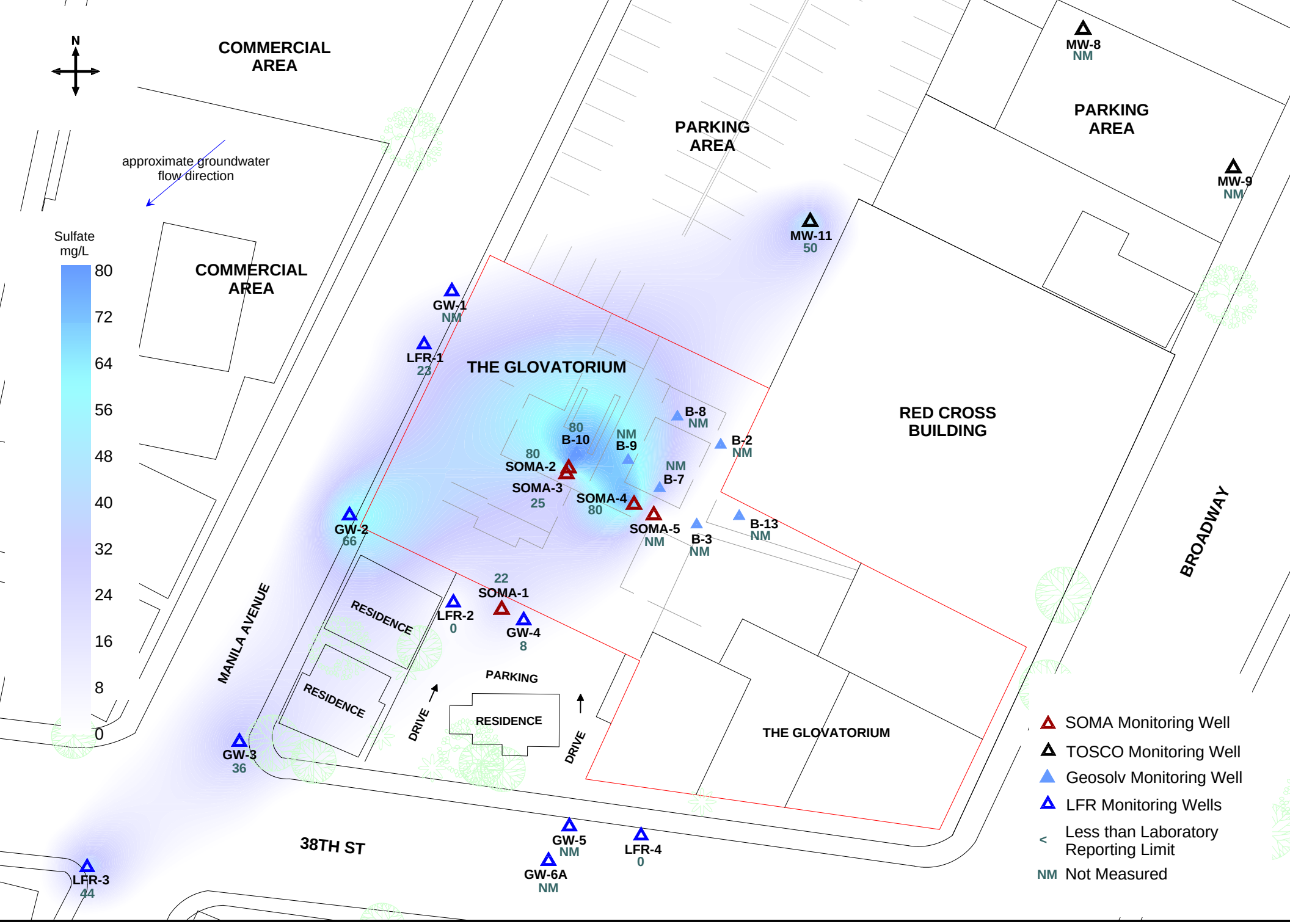


Figure 15: Contour map of sulfate concentrations in groundwater. February 9 and 10, 2009

SOMA ENVIRONMENTAL ENGINEERING, INC.

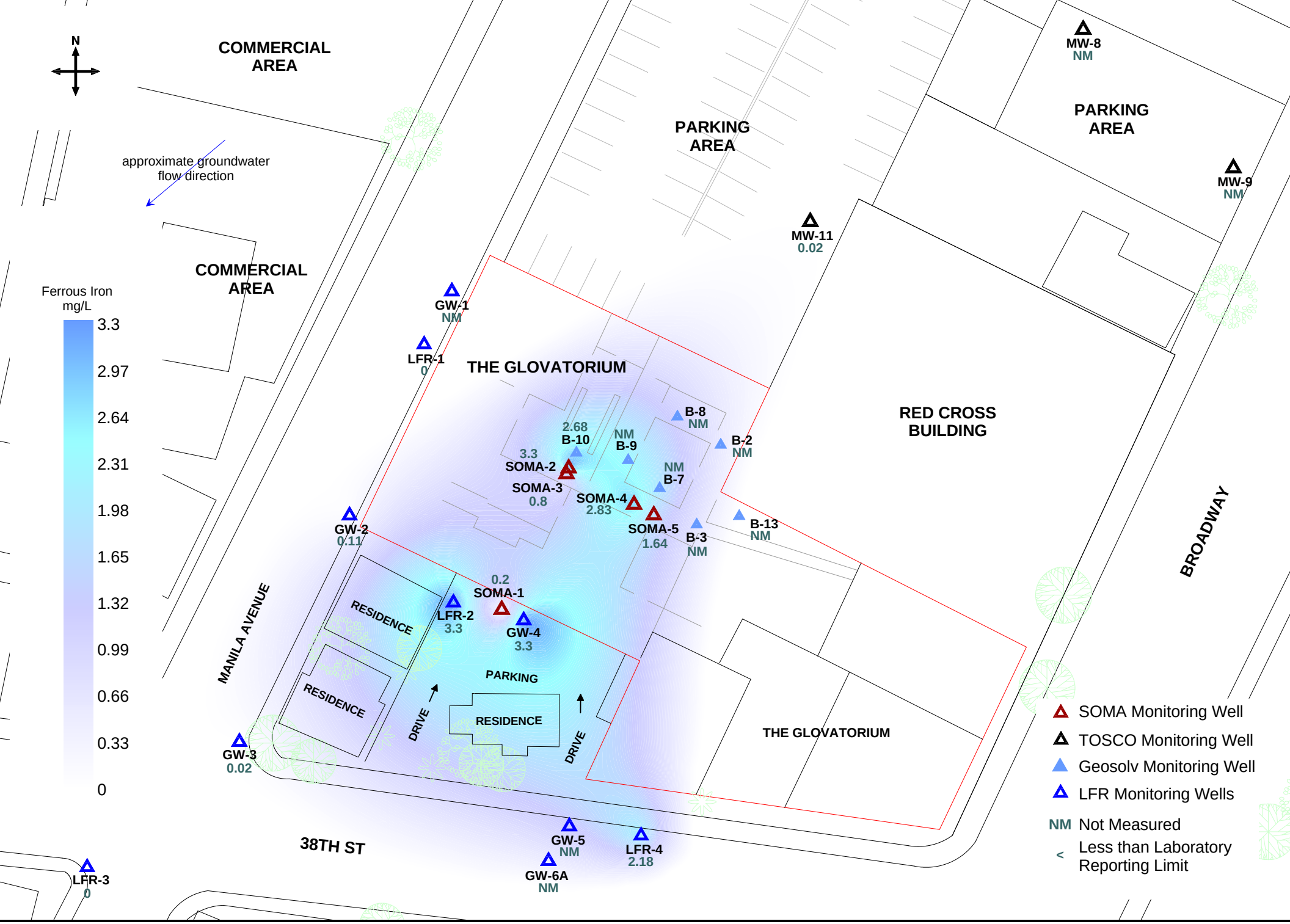


Figure 16: Contour map of ferrous iron concentrations in groundwater. February 9 and 10, 2009

ENVIRONMENTAL ENGINEERING, INC.

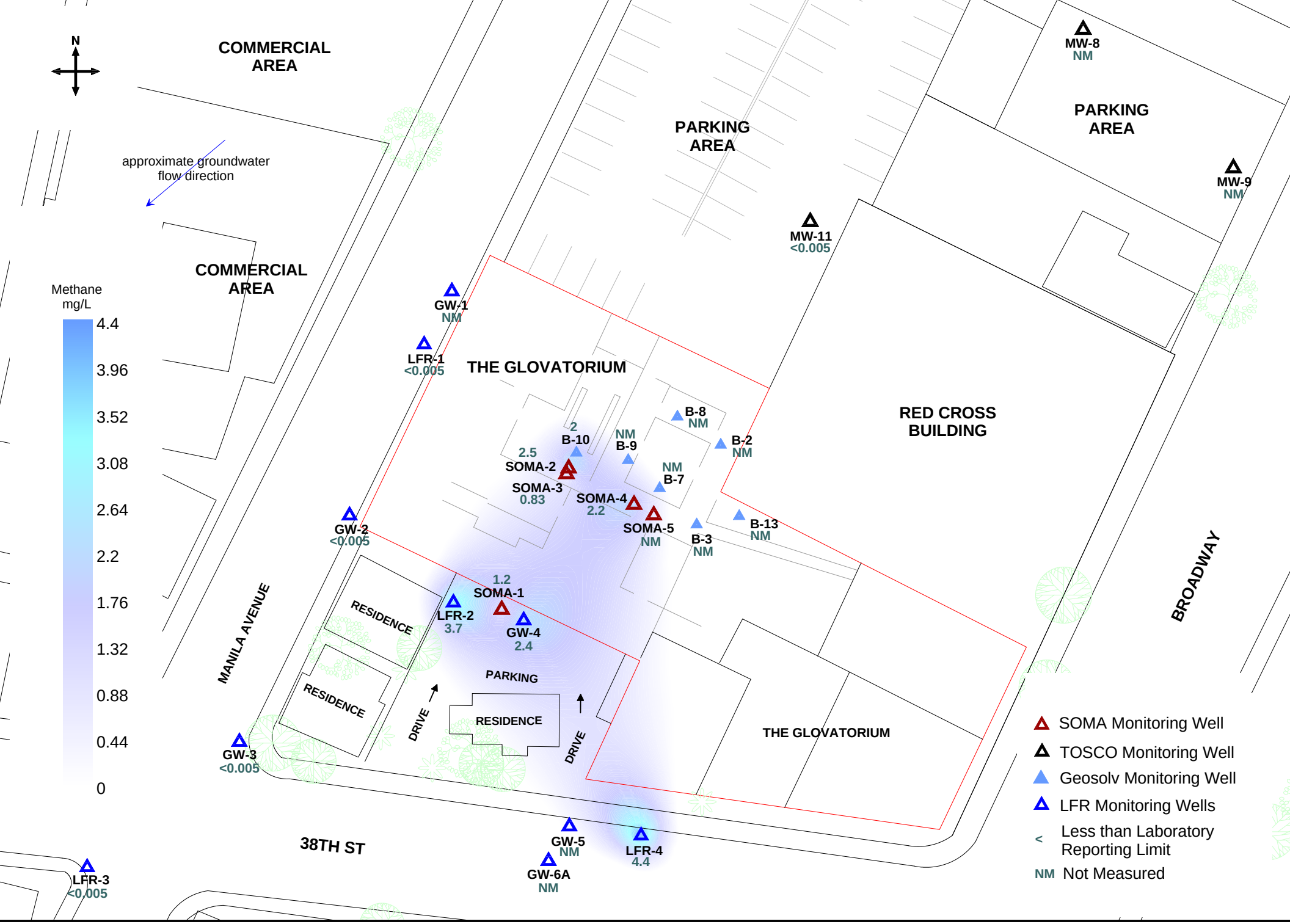
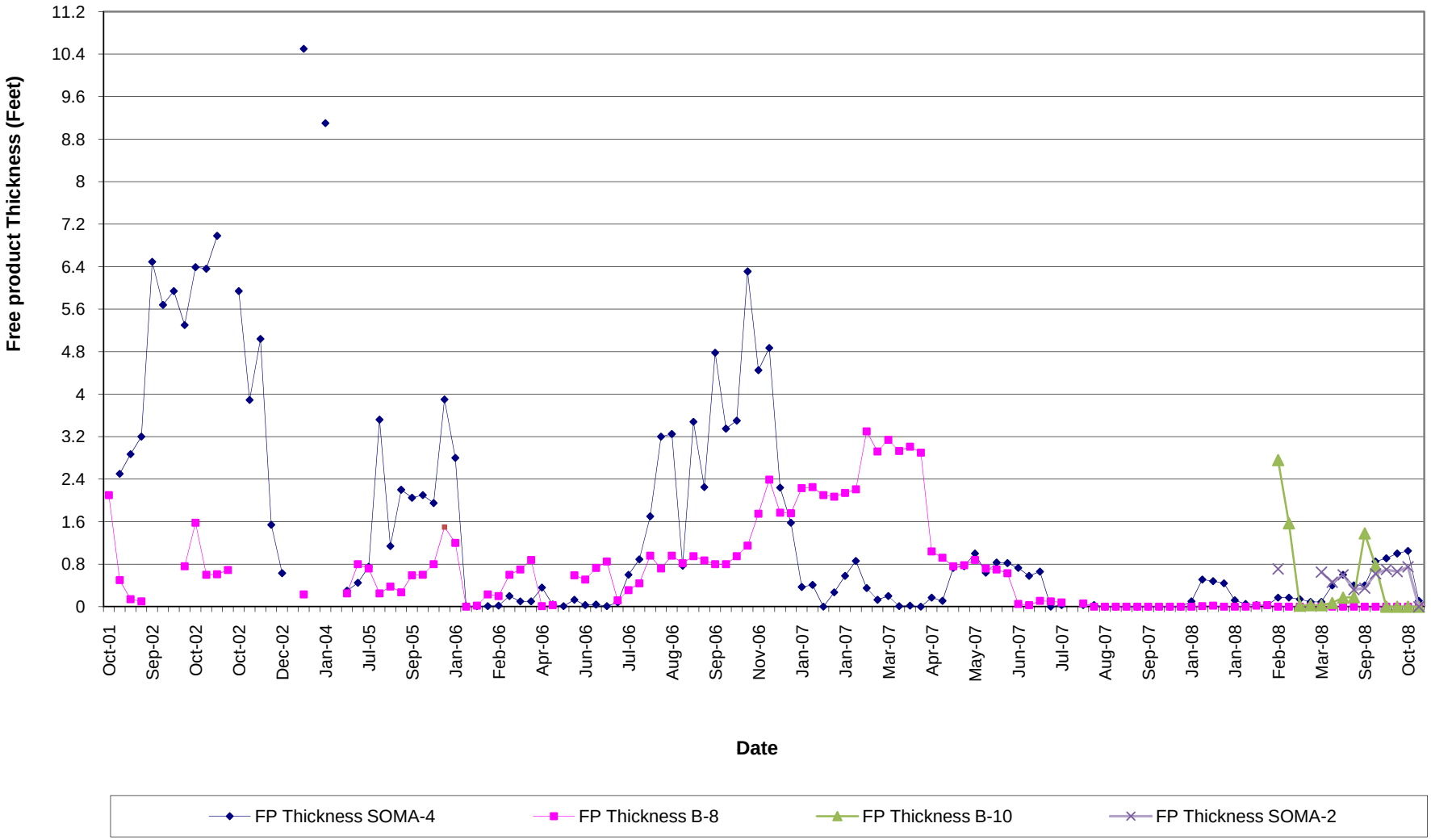


Figure 17: Contour map of methane concentrations in groundwater. February 9 and 10, 2009

SOMA ENVIRONMENTAL ENGINEERING, INC.

Figure 18
Free Product Thickness
Former Glovatorium Site
3185 Broadway, Oakland, California



APPENDIX A

SOMA's Groundwater Monitoring Procedures

Field Activities

Field activities were conducted on February 9 and 10, 2009. During this event, 13 monitoring wells were sampled. Depths to groundwater were measured in 25 groundwater monitoring wells and temporary sampling points. SOMA-5 was not sampled due to insufficient water for purging and sampling. Figure 2 shows locations of groundwater monitoring wells and temporary sampling points.

On February 9, 2009, SOMA's field crew measured depths to groundwater in the monitoring wells and temporary groundwater sampling points from the top of the casings to the nearest 0.01 feet using an electrical sounder. The depth to groundwater and top of the casing elevation were used to calculate the Site's groundwater elevation at each sounding location.

Prior to sample collection, each well was purged using a battery-operated, 2-inch-diameter pump (Model ES-60 DC) or a GeoTech pump (for the smaller ¾-inch diameter temporary wells). During the purging activities, the groundwater was measured for parameters such as DO, pH, temperature, EC, and the ORP using a Hanna HI-9828 multi-parameter instrument. Turbidity was measured using a Hanna HI-98703 portable turbidimeter. The equipment was calibrated at the Site using standard solutions and procedures provided by the manufacturer.

The purging continued until the parameters for pH, temperature, EC, DO, turbidity, and ORP stabilized, or three casing volumes were purged. The groundwater samples were also tested on-site for nitrate, nitrite, sulfate, total iron, ferrous iron and dissolved manganese concentrations, once stabilization occurred, using the Hach Colorimeter (Model 890). The Hach Colorimeter is a microprocessor-controlled photometer suitable for colorimetric testing in the laboratory or the field. The required reagents for each specific test were provided in AccuVac ampules.

Nitrate was measured colorimetrically using Method 8039, the Cadmium Reduction Method. Cadmium metal in the NitraVer 5 Nitrate Reagent reduces nitrates present in the sample to nitrite; the nitrite ion reacts in an acidic medium with sulfanilic acid to form an intermediate diazonium salt, which couples with getistic acid to form an amber-colored product. The intensity of the color is proportional to the nitrate concentration in the sample.

Nitrite was measured colorimetrically using Method 8507, the Diazotization Method. Nitrite in the sample reacts with sulfanilic acid in the NitriVer 3 Nitrite Reagent to form an intermediate diazonium salt. The salt couples with chromotropic acid to produce a pink colored complex. The intensity of the color is proportional to the nitrite concentration in the sample.

Sulfate was measured colorimetrically using Method 8051, the SulfaVer 4 Method. Sulfate ions in the sample react with barium in the SulfaVer 4 Sulfate

Reagent to form insoluble barium sulfate. The intensity of the subsequent color development is proportional to the sulfate concentration.

Ferrous iron was measured colorimetrically using Method 8146 (1,10-phenanthroline Method). The 1,10-phenathroline indicator in the ferrous iron reagent reacts with Fe^{+2} in the sample to form an orange color. The intensity of the orange color is proportional to the iron concentration.

Total iron was measured colorimetrically using Method 8008. The FerroVer Iron Reagent reacts with all soluble and most insoluble forms of iron in the sample to produce soluble ferrous iron. This reacts with the 1,10-phenanthroline indicator in the reagent to form an orange color in proportion to the iron concentration.

Dissolved manganese was measured colorimetrically using Method 8034, the Periodate Oxidation Method. Manganese in the sample is oxidized to the purple permanganate state by sodium periodate, after buffering the sample with citrate. The purple color that develops as a result of this reaction is directly proportional to the manganese concentration.

After purging, a disposable polyethylene bailer was used to collect sufficient samples from each monitoring well for laboratory analyses. The groundwater samples from the smaller diameter ¾-inch temporary wells were collected using the GeoTech pump and a battery pack. A ¼-inch poly tube was placed in the temporary well, and groundwater was extracted through the tubing using the GeoTech pump.

The groundwater sample was transferred to nine 40-mL VOA vials and preserved with hydrochloric acid. The vials were then sealed to prevent the development of air bubbles within the headspace. The VOA vials containing the samples were immediately placed on ice and maintained at 4°C in a cooler. A chain of custody form was written and placed with the samples in the cooler. SOMA's field crew delivered the samples to Curtis & Tompkins, Ltd. Laboratory, in Berkeley, California, upon sampling completion.

Laboratory Analysis

Curtis & Tompkins, Ltd., a state-certified laboratory, analyzed the groundwater samples for TPH-g, TPH-ss, purgeable organics, which included BTEX and MtBE constituents, methane, ethane, and ethene. TPH-g and TPH-ss were prepared using EPA Method 5030B and measured using EPA Method 8015B. Purgeable organics, which included BTEX and MtBE, were prepared using EPA Method 5030B and analyzed using EPA Method 8260B. Methane, ethane, and ethene were analyzed using RSK-175.

APPENDIX B

Field Notes, Field Measured Physical and Chemical Parameter Values

ENVIRONMENTAL ENGINEERING, INC

Well Name:	B-2	**Project #:**	2511
Casing Diameter:	_____ inch	**Address:**	3815 Broadway
Depth of Well:	_____ feet		Oakland, California
Top of Casing Elevation:	82.09 feet	**Date:**	February 9, 2009
Depth to Groundwater:	8.63 feet	**Sampler:**	Jesse Acedillo
Groundwater Elevation:	73.46 feet		Eric Gassner-Wollwage
Water Column Height:	- feet		
Purged Volume:	- gallons		

Purging Method:	**Bailer** ☐		**Pump** ☐		
Sampling Method:	**Bailer** ☐		**Pump** ☐		
Color:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Sheen:	**No** ☐		**Yes** ☐	**Describe:**	
Odor:	**No** ☐		**Yes** ☐	**Describe:**	

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	B-3	**Project #:**	2511
Casing Diameter:	_____ inch	**Address:**	3815 Broadway
Depth of Well:	_____ feet		Oakland, California
Top of Casing Elevation:	82.57 feet	**Date:**	February 9, 2009
Depth to Groundwater:	8.85 feet	**Sampler:**	Jesse Acedillo
Groundwater Elevation:	73.72 feet		Eric Gassner-Wollwage
Water Column Height:	- feet		
Purged Volume:	- gallons		

Purging Method:	**Bailer** ☐		**Pump** ☐		
Sampling Method:	**Bailer** ☐		**Pump** ☐		
Color:	**No** ☐		**Yes** ☐	**Describe:**	unknown
Sheen:	**No** ☐		**Yes** ☐	**Describe:**	unknown
Odor:	**No** ☐		**Yes** ☐	**Describe:**	unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	B-7	**Project #:**	2511
Casing Diameter:	_____ inch	**Address:**	3815 Broadway
Depth of Well:	_____ feet		Oakland, California
Top of Casing Elevation:	76.96 feet	**Date:**	February 9, 2009
Depth to Groundwater:	dry feet	**Sampler:**	Jesse Acedillo
Groundwater Elevation:	NA feet		Eric Gassner-Wollwage
Water Column Height:	NA feet		
Purged Volume:	— gallons		

Purging Method:	**Bailer** ☐		**Pump** ☐		
Sampling Method:	**Bailer** ☐		**Pump** ☐		
Color:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Sheen:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Odor:	**No** ☐		**Yes** ☐	**Describe:**	Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	B-8	**Project #:**	2511
Casing Diameter:	_____ inch	**Address:**	3815 Broadway
Depth of Well:	_____ feet		Oakland, California
Top of Casing Elevation:	81.82 feet	**Date:**	February 9, 2009
Depth to Groundwater:	11.30 feet	**Sampler:**	Jesse Acedillo
Groundwater Elevation:	70.52 feet		Eric Gassner-Wollwage
Water Column Height:	- feet		
Purged Volume:	- gallons		

Purging Method:	**Bailer** ☐		**Pump** ☐		
Sampling Method:	**Bailer** ☐		**Pump** ☐		
Color:	**No** ☐		**Yes** ☐	**Describe:**	_____
Sheen:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Odor:	**No** ☐		**Yes** ☐	**Describe:**	Un

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	B-9	**Project #:**	2511
Casing Diameter:	_____ inch	**Address:**	3815 Broadway
Depth of Well:	_____ feet		Oakland, California
Top of Casing Elevation:	77.37 feet	**Date:**	February 9, 2009
Depth to Groundwater:	10.65 feet	**Sampler:**	Jesse Acedillo
Groundwater Elevation:	66.72 feet		Eric Gassner-Wollwage
Water Column Height:	- feet		
Purged Volume:	- gallons		

Purging Method:	**Bailer** ☐		**Pump** ☐		
Sampling Method:	**Bailer** ☐		**Pump** ☐		
Color:	**No** ☐		**Yes** ☐	**Describe:**	_____
Sheen:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Odor:	**No** ☐		**Yes** ☐	**Describe:**	U

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	B-10	**Project #:**	2511
Casing Diameter:	3/4 inch	**Address:**	3815 Broadway
Depth of Well:	17.90 feet		Oakland, California
Top of Casing Elevation:	81.50 feet	**Date:**	February ~~24-25~~ 10, 2009
Depth to Groundwater:	10.87 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	70.63 feet		Eric Grassner-Wollwage
Water Column Height:	7.03 feet		
Purged Volume:	0.25 gallons		

Purging Method:	**Bailer** ☐	**Pump** ☑	Geopump		
Sampling Method:	**Bailer** ☐	**Pump** ☐			
Color:	**No** ☐	**Yes** ☑	**Describe:**	Cloudy	
Sheen:	**No** ☑	**Yes** ☐	**Describe:**		
Odor:	**No** ☐	**Yes** ☑	**Describe:**	Petro odor	

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1349	Started purging well						
1350	0.25	6.89	14.33	0.18	7	167	-65.7
1355	Sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
14:10	2.68	3.30	5.7	0.012	80	0.5

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	B-13	**Project #:**	2511
Casing Diameter:	____ inch	**Address:**	3815 Broadway
Depth of Well:	____ feet		Oakland, California
Top of Casing Elevation:	84.58 feet	**Date:**	February 9, 2009
Depth to Groundwater:	dry feet	**Sampler:**	Jesse Acedillo
Groundwater Elevation:	NA feet		Eric Gassner-Wollwage
Water Column Height:	- feet		
Purged Volume:	- gallons		

Purging Method:	**Bailer** ☐		**Pump** ☐		
Sampling Method:	**Bailer** ☐		**Pump** ☐		
Color:	**No** ☐		**Yes** ☐	**Describe:**	____
Sheen:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Odor:	**No** ☐		**Yes** ☐	**Describe:**	____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	GW-1	**Project #:**	2511
Casing Diameter:	_____ inch	**Address:**	3815 Broadway
Depth of Well:	_____ feet		Oakland, California
Top of Casing Elevation:	79.94 feet	**Date:**	February 9, 2009
Depth to Groundwater:	dry feet	**Sampler:**	Jesse Acedillo
Groundwater Elevation:	NA feet		Eric Gassner-Wollwage
Water Column Height:	- feet		
Purged Volume:	- gallons		

Purging Method:	**Bailer** ☐		**Pump** ☐		
Sampling Method:	**Bailer** ☐		**Pump** ☐		
Color:	**No** ☐		**Yes** ☐	**Describe:**	_____
Sheen:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Odor:	**No** ☐		**Yes** ☐	**Describe:**	U

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name: GW-2
Casing Diameter: 3/4 inch
Depth of Well: 20.00 feet
Top of Casing Elevation: 79.14 feet
Depth to Groundwater: 11.86 feet
Groundwater Elevation: 67.28 feet
Water Column Height: 8.14 feet
Purged Volume: 0.25 gallons

Project #: 2511
Address: 3815 Broadway
Oakland, California
Date: February ~~24~~ 25, 2009
Sampler: ~~Lizzie Hightower~~
EWC Gassner-Hollenbeck
Jesse Acedillo

Purging Method: Bailer ☐ Pump ☒ Geotech
Sampling Method: Bailer ☐ Pump ☒

Color: No ☒ Yes ☐ Describe: _____
Sheen: No ☒ Yes ☐ Describe: _____
Odor: No ☒ Yes ☐ Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1351	Started purging well						
1352	0.25	6.59	17.4	0.14	614	5.53	+10.4
1353	dried						
1358	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
1400	0.11	0.22	3.4	0.004	66	1.3

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name: GW-3
Casing Diameter: 3/4 inch
Depth of Well: 20.00 feet
Top of Casing Elevation: 77.92 feet
Depth to Groundwater: 9.91 feet
Groundwater Elevation: 68.01 feet
Water Column Height: 10.09 feet
Purged Volume: 0.5 gallons

Project #: 2511
Address: 3815 Broadway
Oakland, California
Date: February ~~24~~ 25, 2009
Sampler: ~~Lizzie Hightower~~
Eric Gassner-Lovelace
Jesse Acedillo

Purging Method: Bailer ☐ Pump ☒ Geotech
Sampling Method: Bailer ☐ Pump ☐

Color: No ☒ Yes ☐ Describe: _____
Sheen: No ☒ Yes ☐ Describe: _____
Odor: No ☒ Yes ☐ Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1315	started purging well						
1317	0.5	6.38	17.9	0.13	440	1.60	-6.1
1318	dried						
1323	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
1326	0.02	0.10	2.8	0.009	36	1.4

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	GW-4	**Project #:**	2511
Casing Diameter:	3/4 inch	**Address:**	3815 Broadway
Depth of Well:	12.00 feet		Oakland, California
Top of Casing Elevation:	82.37 feet	**Date:**	February ~~24~~ 10, 2009
Depth to Groundwater:	7.50 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	74.87 feet		Eric Gassner-Wollwage
Water Column Height:	4.50 feet		
Purged Volume:	0.25 gallons		

Purging Method:	**Bailer** ☐	**Pump** ☒	geopump	
Sampling Method:	**Bailer** ☐	**Pump** ☒		
Color:	**No** ☒	**Yes** ☐	**Describe:**	
Sheen:	**No** ☒	**Yes** ☐	**Describe:**	
Odor:	**No** ☒	**Yes** ☐	**Describe:**	

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
09:41	Started purging well						
09:42	0.25	6.45	17.67	0.13	487	19.4	-19.4
946	sampled.						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
10:00	3.30	3.30	2.3	0	3	3.0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	GW-5	**Project #:**	2511
Casing Diameter:	_____ inch	**Address:**	3815 Broadway
Depth of Well:	_____ feet		Oakland, California
Top of Casing Elevation:	81.01 feet	**Date:**	February 9, 2009
Depth to Groundwater:	12.42 feet	**Sampler:**	Jesse Acedillo
Groundwater Elevation:	68.59 feet		Eric Gassner-Wollwage
Water Column Height:	- feet		
Purged Volume:	- gallons		

Purging Method:	**Bailer** ☐		**Pump** ☐		
Sampling Method:	**Bailer** ☐		**Pump** ☐		
Color:	**No** ☐		**Yes** ☐	**Describe:**	
Sheen:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Odor:	**No** ☐		**Yes** ☐	**Describe:**	

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	GW-6A	**Project #:**	2511
Casing Diameter:	_____ inch	**Address:**	3815 Broadway
Depth of Well:	_____ feet		Oakland, California
Top of Casing Elevation:	81.61 feet	**Date:**	February 9, 2009
Depth to Groundwater:	13.85 feet	**Sampler:**	Jesse Acedillo
Groundwater Elevation:	67.76 feet		Eric Gassner-Wollwage
Water Column Height:	- feet		
Purged Volume:	- gallons		

Purging Method:	**Bailer** ☐		**Pump** ☐		
Sampling Method:	**Bailer** ☐		**Pump** ☐		
Color:	**No** ☐		**Yes** ☐	**Describe:**	_____
Sheen:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Odor:	**No** ☐		**Yes** ☐	**Describe:**	Un

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	MW-8	**Project #:**	2511
Casing Diameter:	_____ inch	**Address:**	3815 Broadway
Depth of Well:	_____ feet		Oakland, California
Top of Casing Elevation:	87.44 feet	**Date:**	February 9, 2009
Depth to Groundwater:	10.21 feet	**Sampler:**	Jesse Acedillo
Groundwater Elevation:	77.23 feet		Eric Gassner-Wollwage
Water Column Height:	– feet		
Purged Volume:	– gallons		

Purging Method:	**Bailer** ☐		**Pump** ☐		
Sampling Method:	**Bailer** ☐		**Pump** ☐		
Color:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Sheen:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Odor:	**No** ☐		**Yes** ☐	**Describe:**	Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	MW-9	**Project #:**	2511
Casing Diameter:	_____ inch	**Address:**	3815 Broadway
Depth of Well:	_____ feet		Oakland, California
Top of Casing Elevation:	86.56 feet	**Date:**	February 9, 2009
Depth to Groundwater:	9.73 feet	**Sampler:**	Jesse Acedillo
Groundwater Elevation:	76.83 feet		Eric Gassner-Wollwage
Water Column Height:	- feet		
Purged Volume:	- gallons		

Purging Method:	**Bailer** ☐		**Pump** ☐		
Sampling Method:	**Bailer** ☐		**Pump** ☐		
Color:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Sheen:	**No** ☐		**Yes** ☐	**Describe:**	Unknown
Odor:	**No** ☐		**Yes** ☐	**Describe:**	Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	MW-11	**Project #:**	2511
Casing Diameter:	2 inch	**Address:**	3815 Broadway
Depth of Well:	19.00 feet		Oakland, California
Top of Casing Elevation:	84.13 feet	**Date:**	February ~~24-25~~ 10, 2009
Depth to Groundwater:	12.49 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	71.64 feet		Eric Gassner- Wollwage
Water Column Height:	6.51 feet		
Purged Volume:	3 gallons		

Purging Method:	**Bailer** ☑		**Pump** ☐		
Sampling Method:	**Bailer** ☑		**Pump** ☐		
Color:	**No** ☐		**Yes** ☑	**Describe:**	Cloudy
Sheen:	**No** ☑		**Yes** ☐	**Describe:**	
Odor:	**No** ☑		**Yes** ☐	**Describe:**	

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
11:23	started purging well						
11:28	1	6.57	20.92	0.18	957	49.2	+25.3
11:30	2	6.44	21.64	0.18	982	23.1	+31.6
11:32	3	6.39	21.73	0.25	1130	165	+34.4
11:37	Sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
11:52	0.02	0.23	0	0.007	50	0.6

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name: LFR-1
Casing Diameter: 2 inch
Depth of Well: 19.00 feet
Top of Casing Elevation: 79.97 feet
Depth to Groundwater: 9.55 feet
Groundwater Elevation: 70.42 feet
Water Column Height: 9.45 feet
Purged Volume: 5 gallons

Project #: 2511
Address: 3815 Broadway
Oakland, California
Date: February ~~24~~ 25, 2009
Sampler: ~~Lizzie Hightower~~
Eric Gaisner-Wollman
Jesse Acedillo

Purging Method: Bailer ☐ Pump ☐ GeoPump
Sampling Method: Bailer ☐ Pump ☐

Color: No ☐ Yes ☐ Describe: _____
Sheen: No ☐ Yes ☐ Describe: _____
Odor: No ☐ Yes ☐ Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1414	Started purging well						
1416	1	6.53	16.3	0.14	438	2.45	+22.8
1420	3	6.45	15.8	0.13	455	1.55	+19.1
1424	5	6.32	16.2	0.14	482	1.74	+12.2
1429	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
1431	0	0	0	0	23	4.9

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	LFR-2	**Project #:**	2511
Casing Diameter:	2 inch	**Address:**	3815 Broadway
Depth of Well:	19.00 feet		Oakland, California
Top of Casing Elevation:	81.89 feet	**Date:**	February ~~24~~ 10, 2009
Depth to Groundwater:	11.15 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	70.74 feet		Eric Gassner- Wollwage
Water Column Height:	7.85 feet		
Purged Volume:	4 gallons		

Purging Method:	**Bailer** ☐		**Pump** ☑			
Sampling Method:	**Bailer** ☑		**Pump** ☐			
Color:	**No** ☐		**Yes** ☐	**Describe:**		
Sheen:	**No** ☑		**Yes** ☐	**Describe:**		
Odor:	**No** ☐		**Yes** ☑	**Describe:**	Chemical	

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1037	Started purging well						
1038	2	6.55	19.91	0.15	359	2.66	-22.9
1039	4	6.53	17.41	0.16	980	4.87	-62.2
1041	Sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
10:56	3.30	3.30	0.2	0.009	10	24.0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name: LFR-3
Casing Diameter: 2 inch
Depth of Well: 22.00 feet
Top of Casing Elevation: 77.96 feet
Depth to Groundwater: 11.59 feet
Groundwater Elevation: 66.37 feet
Water Column Height: 10.41 feet
Purged Volume: 5 gallons

Project #: 2511
Address: 3815 Broadway
Oakland, California
Date: February ~~24~~ 26, 2009
Sampler: ~~Lizzie Hightower~~ Eric Gassner-Wellways
Jesse Arediilo

Purging Method: Bailer ☐ Pump ☒ Geopump
Sampling Method: Bailer ☒ Pump ☐

Color: No ☒ Yes ☐ Describe: _____
Sheen: No ☒ Yes ☐ Describe: _____
Odor: No ☒ Yes ☐ Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1224	Started purging well						
1226	1	6.16	17.5	0.11	391	7.68	-38.9
1230	3	6.20	17.4	0.12	429	3.26	-40.0
1234	5	6.21	17.3	0.13	453	4.19	-41.0
1238	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
12:42	0	0	2.3	0.002	44	0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name: LFR-4
Casing Diameter: 2 inch
Depth of Well: 19.30 feet
Top of Casing Elevation: 81.65 feet
Depth to Groundwater: 14.14 feet
Groundwater Elevation: 67.51 feet
Water Column Height: 5.16 feet
Purged Volume: 2 gallons

Project #: 2511
Address: 3815 Broadway
Oakland, California
Date: February ~~24~~ 10, 2009
Sampler: Lizzie Hightower
Eric Gassner-Wollwage

Purging Method: Bailer ☑ Pump ☐
Sampling Method: Bailer ☑ Pump ☐

Color: No ☐ Yes ☑ **Describe:** Cloudy
Sheen: No ☐ Yes ☑ **Describe:** Rainbow Sheen
Odor: No ☐ Yes ☑ **Describe:** Petro Odor

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
15:59	started purging well						
16:00	0.5	6.79	17.53	0.19	550	419	-24.6
16:02	1.0	6.39	18.09	0.19	588	343	-29.7
16:03	2.0	6.38	20.16	0.18	591	536	-30.6
16:08	Sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
16:18	2.18	3.30	0	0	0	28.1

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name:	SOMA-1	**Project #:**	2511
Casing Diameter:	4 inch	**Address:**	3815 Broadway
Depth of Well:	40.00 feet		Oakland, California
Top of Casing Elevation:	81.64 feet	**Date:**	February ~~24~~ 10, ~~25~~, 2009
Depth to Groundwater:	14.78 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	66.86 feet		Eric Gassner-Wellwage
Water Column Height:	25.22 feet		
Purged Volume:	16 gallons		

Purging Method:	**Bailer** ☐		**Pump** ☒		
Sampling Method:	**Bailer** ☒		**Pump** ☐		
Color:	**No** ☒		**Yes** ☐	**Describe:**	
Sheen:	**No** ☒		**Yes** ☐	**Describe:**	
Odor:	**No** ☐		**Yes** ☒	**Describe:**	slight chemical

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1003	started purging well						
1004	2	6.49	20.92	0.13	993	7.51	+26
1006	6	6.44	20.97	0.14	1065	6.25	+22.4
1008	10	6.43	18.92	0.15	1106	6.40	+22.6
1011	16	6.42	19.31	0.15	779	5.58	+22.7
1015	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
10:28	0.20	0.28	0.6	0.011	22	8.0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name: SOMA-2
Casing Diameter: 2 inch
Depth of Well: 20.00 feet
Top of Casing Elevation: 81.39 feet
Depth to Groundwater: 10.70 feet
Groundwater Elevation: 70.69 feet
Water Column Height: 9.30 feet
Purged Volume: 5 gallons

Project #: 2511
Address: 3815 Broadway
Oakland, California
Date: February ~~24~~ 25, 2009
Sampler: Lizzie Hightower
Eric Gaebler-Hollaway

Purging Method: Bailer ☐ Pump ☑
Sampling Method: Bailer ☑ Pump ☐

Color: No ☐ Yes ☑ Describe: Cloudy
Sheen: No ☑ Yes ☐ Describe:
Odor: No ☐ Yes ☑ Describe: Petro Odor

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
14:19	started purging well						
14:20	2	6.89	19.20	0.18	892	148	-89
14:22	5	6.86	19.33	0.18	912	542	-100.6
1422	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
14:37	3.30	3.30	0	0	80	~~380~~ 383

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name: SOMA-3
Casing Diameter: 3/4 inch
Depth of Well: 30.00 feet
Top of Casing Elevation: 81.42 feet
Depth to Groundwater: 13.45 feet
Groundwater Elevation: 67.97 feet
Water Column Height: 16.55 feet
Purged Volume: 1.5 gallons

Project #: 2511
Address: 3815 Broadway
Oakland, California
Date: February ~~24~~ 10-25, 2009
Sampler: Lizzie Hightower
Eric Gassner-Wollwage

Purging Method: Bailer ☐ Pump ☑ Geotech
Sampling Method: Bailer ☐ Pump ☑

Color: No ☐ Yes ☐ Describe: _____
Sheen: No ☐ Yes ☐ Describe: _____
Odor: No ☐ Yes ☒ Describe: petro

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
14:51	started purging well						
14:56	1	6.78	16.02	0.20	1013	58.2	-38.1
15:02	1.5	6.75	16.30	0.20	1149	45.3	34.2
15:07	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
15:17	0.80	0.90	0	0.008	25	0.8

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name: SOMA-4
Casing Diameter: 2 inch
Depth of Well: 19.91 feet
Top of Casing Elevation: 81.09 feet
Depth to Groundwater: 12.09 feet
Groundwater Elevation: 69.00 feet
Water Column Height: 7.82 feet
Purged Volume: 4 gallons

Project #: 2511
Address: 3815 Broadway
Oakland, California
Date: February ~~24-25,~~ 10 2009
Sampler: Lizzie Hightower
Eric Gassner-Hollwage

Purging Method: Bailer ☐ Pump ☒
Sampling Method: Bailer ☑ Pump ☐

Color: No ☐ Yes ☑ **Describe:** Cloudy
Sheen: No ☑ Yes ☐ **Describe:**
Odor: No ☐ Yes ☐ **Describe:**

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
13:00	started purging well						
13:01	2	6.57	19.36	0.17	1023	158	-78.2
13:02	4	6.61	19.42	0.17	1071	172	-104.9
13:08	Sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
13:23	2.85	3.10	0.4	0.003	80	7.1

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well Name: SoMA-5
Casing Diameter: 3/4 inch
Depth of Well: 25-60 feet
Top of Casing Elevation: 81.50 feet
Depth to Groundwater: 22.22 feet
Groundwater Elevation: 59.28 feet
Water Column Height: 3.38 feet
Purged Volume: 0.25 gallons

Project #: 2511
Address: 3815 Broadway
Oakland, California
Date: February ~~24~~ 10~~25~~, 2009
Sampler: Lizzie Hightower
Eric Gessner-Wallrope

Purging Method:	**Bailer** ☐		**Pump** ☑	Geopump	
Sampling Method:	**Bailer** ☐		**Pump** ☑		
Color:	**No** ☐		**Yes** ☑	**Describe:**	Slightly Cloudy
Sheen:	**No** ☑		**Yes** ☐	**Describe:**	
Odor:	**No** ☑		**Yes** ☐	**Describe:**	

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
12:36	started purging well						
12:37	0.25	7.07	15.8	0.18	538	31.3	-119.4
12:42	~~Sampled~~ Dried Not enough water to sample						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
12:57	1.69	3.30	0	0	0	63.4

Notes:

APPENDIX C

Chain of Custody Forms and Laboratory Reports

CHAIN OF CUSTODY

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

C&T LOGIN # 209945

Sampler: Eric Gassner-Wollwage, Jesse Acedillo, Elizabeth Hightower

Project No: 2511

Report To: Joyce Bobek

Project Name: 3815 Broadway, Oakland, CA

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	Preservative: HCL	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE	Analyses: TPHg (including Stoddard Solvent) 8015		Analyses: 8260 (Full List)	Analyses: Methane
1	GW-2	2/9/09 13:58		*		9-40ml VOAs	*			*	*		*	*
2	GW-3	2/9/09 13:23		*		9-40ml VOAs	*			*	*		*	*
3	GW-4	2/10/09 946		*		9-40ml VOAs	*			*	*		*	*
4	MW-11	2/10/09 1137		*		9-40ml VOAs	*			*	*		*	*
5	LFR-1	2/9/09 14:29		*		9-40ml VOAs	*			*	*		*	*
6	LFR-2	2/10/09 1041		*		9-40ml VOAs	*			*	*		*	*
7	LFR-3	2/9/09 12:38		*		9-40ml VOAs	*			*	*		*	*
8	LFR-4	2/10/09 1608		*		9-40ml VOAs	*			*	*		*	*
9	SOMA-1	2/10/09 1015		*		9-40ml VOAs	*			*	*		*	*
10	SOMA-2	2/10/09 1422		*		9-40ml VOAs	*			*	*		*	*
11	SOMA-3	1507		*		9-40ml VOAs	*			*	*		*	*
12	SOMA-4	1308		*		9-40ml VOAs	*			*	*		*	*
	~~SOMA-5~~	1242		*		~~9-40ml VOAs~~	*			*	*		*	*
13	B-10	1355		*		9-40ml VOAs	*			*	*		*	*

Notes:

EDF Output required
8260B List to include gasoline oxygenates & lead scavengers, BTEX, MtBE

RELINQUISHED BY:	RECEIVED BY:
2/11/09 1550 DATE/TIME	2/11/09 3:45 DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 209945 Date Received 2/11/09 Number of coolers 2
Client SOMA ENV. Project 3815 BROADWAY, OAKLAND, CA

Date Opened 2/11/09 By (print) M. VILLANUEVA (sign)
Date Logged in V By (print) V (sign)

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

☐ Bubble Wrap	☑ Foam blocks	☐ Bags	☐ None
☐ Cloth material	☑ Cardboard	☐ Styrofoam	☐ Paper towels

7. Temperature documentation:

   Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) 5.7

   ☐ Samples Received on ice & cold without a temperature blank

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

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
11. Are sample labels present, in good condition and complete? _____ (YES) NO
12. Do the sample labels agree with custody papers? _____ (YES) NO
13. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
14. Are the samples appropriately preserved? _____ (YES) NO N/A
15. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
16. Was the client contacted concerning this sample delivery? _____ YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS
SAMPLE# 1 - 8-VOA's w/ HCL RECD
SAMPLE# 2 7-VOA's w/ HCL RECD

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

Laboratory Job Number 209945
ANALYTICAL REPORT

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 2511
Location : 3815 Broadway, Oakland
Level : II

Sample ID	Lab ID
GW-2	209945-001
GW-3	209945-002
GW-4	209945-003
MW-11	209945-004
LFR-1	209945-005
LFR-2	209945-006
LFR-3	209945-007
LFR-4	209945-008
SOMA-1	209945-009
SOMA-2	209945-010
SOMA-3	209945-011
SOMA-4	209945-012
B-10	209945-013

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 signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 02/23/2009
Project Manager

Signature: _____ Date: 02/23/2009
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**209945**
Client:	**SOMA Environmental Engineering Inc.**
Project:	**2511**
Location:	**3815 Broadway, Oakland**
Request Date:	**02/11/09**
Samples Received:	**02/11/09**

This data package contains sample and QC results for thirteen water samples, requested for the above referenced project on 02/11/09. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recoveries were observed for bromofluorobenzene (FID) in many samples, due to interference from coeluting hydrocarbon peaks. High surrogate recovery was observed for trifluorotoluene (FID) in LFR-4 (lab # 209945-008), due to interference from coeluting hydrocarbon peaks. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
High RPD was observed for tert-butyl alcohol (TBA) in the BS/BSD for batch 147958; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Dissolved Gases by GC/FID (RSK-175):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Received:	02/11/09
Units:	ug/L		

Field ID:	GW-2	Batch#:	147874
Type:	SAMPLE	Sampled:	02/09/09
Lab ID:	209945-001	Analyzed:	02/12/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	88	61-149
Bromofluorobenzene (FID)	92	65-146

Field ID:	GW-3	Batch#:	147874
Type:	SAMPLE	Sampled:	02/09/09
Lab ID:	209945-002	Analyzed:	02/12/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	84 Y Z	50
Stoddard Solvent C7-C12	70 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	85	61-149
Bromofluorobenzene (FID)	93	65-146

Field ID:	GW-4	Batch#:	147874
Type:	SAMPLE	Sampled:	02/10/09
Lab ID:	209945-003	Analyzed:	02/12/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	580 Y	50
Stoddard Solvent C7-C12	490	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	61-149
Bromofluorobenzene (FID)	194 *	65-146

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Received:	02/11/09
Units:	ug/L		

Field ID:	MW-11	Batch#:	147874
Type:	SAMPLE	Sampled:	02/10/09
Lab ID:	209945-004	Analyzed:	02/12/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	61-149
Bromofluorobenzene (FID)	97	65-146

Field ID:	LFR-1	Batch#:	147874
Type:	SAMPLE	Sampled:	02/09/09
Lab ID:	209945-005	Analyzed:	02/13/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	67 Y Z	50
Stoddard Solvent C7-C12	57 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	61-149
Bromofluorobenzene (FID)	103	65-146

Field ID:	LFR-2	Batch#:	147874
Type:	SAMPLE	Sampled:	02/10/09
Lab ID:	209945-006	Analyzed:	02/13/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	4,000 Y	50
Stoddard Solvent C7-C12	3,400	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	78	61-149
Bromofluorobenzene (FID)	454 *	65-146

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Received:	02/11/09
Units:	ug/L		

Field ID:	LFR-3	Batch#:	147874
Type:	SAMPLE	Sampled:	02/09/09
Lab ID:	209945-007	Analyzed:	02/13/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	61-149
Bromofluorobenzene (FID)	96	65-146

Field ID:	LFR-4	Batch#:	147874
Type:	SAMPLE	Sampled:	02/10/09
Lab ID:	209945-008	Analyzed:	02/13/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	1,400 Y	50
Stoddard Solvent C7-C12	1,200 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	212 *	61-149
Bromofluorobenzene (FID)	153 *	65-146

Field ID:	SOMA-1	Batch#:	148076
Type:	SAMPLE	Sampled:	02/10/09
Lab ID:	209945-009	Analyzed:	02/19/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	86 Y Z	50
Stoddard Solvent C7-C12	57 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	83	61-149
Bromofluorobenzene (FID)	82	65-146

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Received:	02/11/09
Units:	ug/L		

Field ID:	SOMA-2	Batch#:	148076
Type:	SAMPLE	Sampled:	02/10/09
Lab ID:	209945-010	Analyzed:	02/19/09
Diln Fac:	200.0		

Analyte	Result	RL
Gasoline C7-C12	1,300,000 Y	10,000
Stoddard Solvent C7-C12	860,000	10,000

Surrogate	%REC	Limits
Trifluorotoluene (FID)	82	61-149
Bromofluorobenzene (FID)	387 *	65-146

Field ID:	SOMA-3	Batch#:	148076
Type:	SAMPLE	Sampled:	02/10/09
Lab ID:	209945-011	Analyzed:	02/19/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	150 Y	50
Stoddard Solvent C7-C12	100	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	82	61-149
Bromofluorobenzene (FID)	97	65-146

Field ID:	SOMA-4	Batch#:	148076
Type:	SAMPLE	Sampled:	02/10/09
Lab ID:	209945-012	Analyzed:	02/19/09
Diln Fac:	20.00		

Analyte	Result	RL
Gasoline C7-C12	65,000 Y	1,000
Stoddard Solvent C7-C12	44,000	1,000

Surrogate	%REC	Limits
Trifluorotoluene (FID)	83	61-149
Bromofluorobenzene (FID)	260 *	65-146

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Received:	02/11/09
Units:	ug/L		

Field ID:	B-10	Batch#:	148076
Type:	SAMPLE	Sampled:	02/10/09
Lab ID:	209945-013	Analyzed:	02/19/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	2,300 Y	50
Stoddard Solvent C7-C12	1,500	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	61-149
Bromofluorobenzene (FID)	223 *	65-146

Type:	BLANK	Batch#:	147874
Lab ID:	QC483138	Analyzed:	02/12/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	84	61-149
Bromofluorobenzene (FID)	83	65-146

Type:	BLANK	Batch#:	148076
Lab ID:	QC483938	Analyzed:	02/19/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	61-149
Bromofluorobenzene (FID)	89	65-146

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC483139	Batch#:	147874
Matrix:	Water	Analyzed:	02/12/09
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	924.1	92	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	61-149
Bromofluorobenzene (FID)	100	65-146

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	147874
MSS Lab ID:	209910-002	Sampled:	02/10/09
Matrix:	Water	Received:	02/10/09
Units:	ug/L	Analyzed:	02/12/09
Diln Fac:	1.000		

Type: MS Lab ID: QC483140

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	21.97	2,000	1,573	78	65-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137	61-149
Bromofluorobenzene (FID)	120	65-146

Type: MSD Lab ID: QC483141

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,633	81	65-120	4	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	141	61-149
Bromofluorobenzene (FID)	121	65-146

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC483939	Batch#:	148076
Matrix:	Water	Analyzed:	02/19/09
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	853.1	85	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	61-149
Bromofluorobenzene (FID)	96	65-146

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	148076
MSS Lab ID:	210094-001	Sampled:	02/17/09
Matrix:	Water	Received:	02/18/09
Units:	ug/L	Analyzed:	02/20/09
Diln Fac:	25.00		

Type: MS Lab ID: QC483940

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	61,570	50,000	110,700	98	65-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	61-149
Bromofluorobenzene (FID)	114	65-146

Type: MSD Lab ID: QC484047

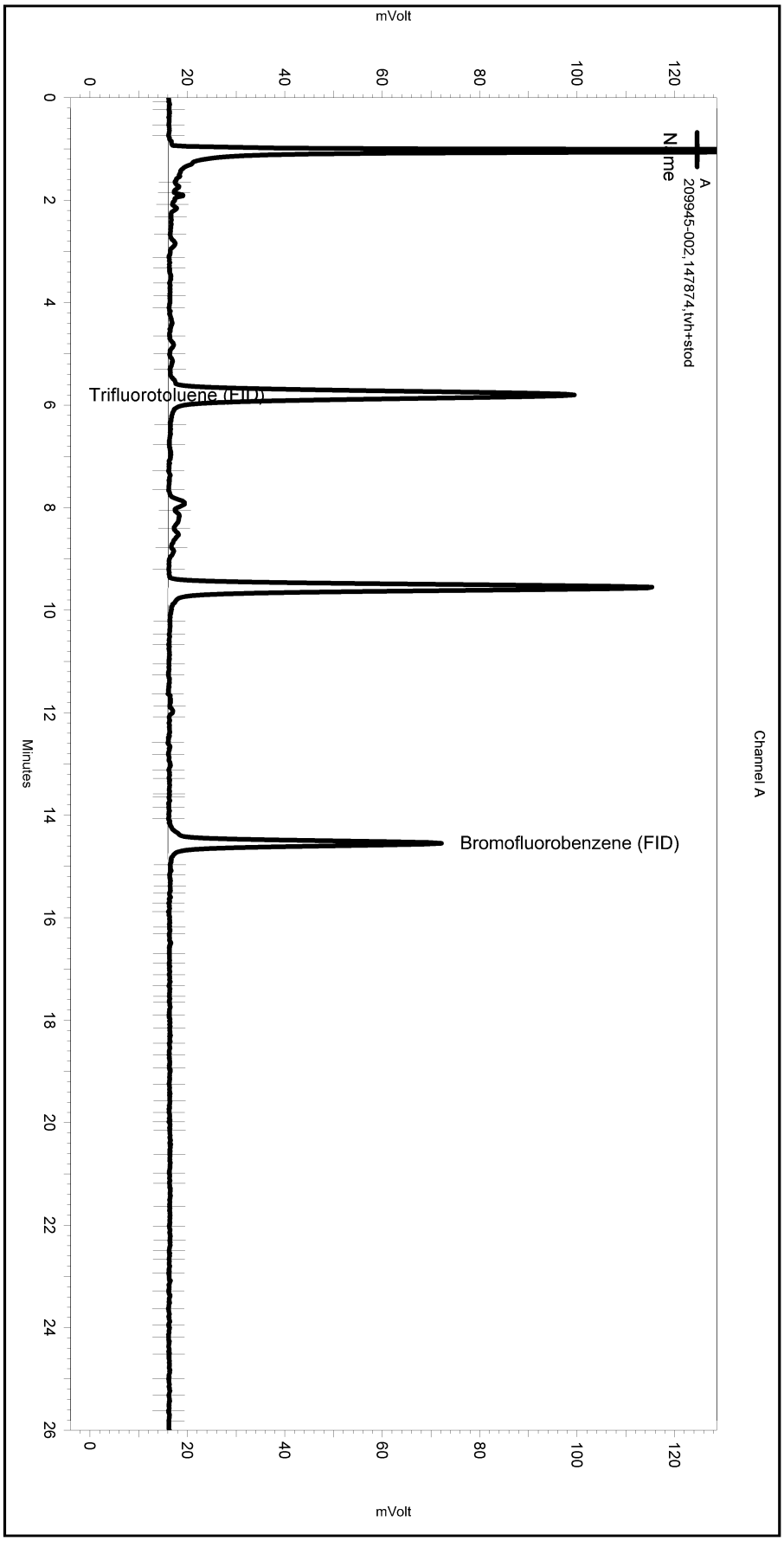
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	50,000	110,900	99	65-120	0	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	61-149
Bromofluorobenzene (FID)	112	65-146

RPD= Relative Percent Difference

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\043.seq**
Sample Name: **209945-002,147874,tvh+stod**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\043_023**
Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe010.met

Software Version 3.1.7
Run Date: 2/12/2009 10:17:09 PM
Analysis Date: 2/12/2009 10:46:37 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

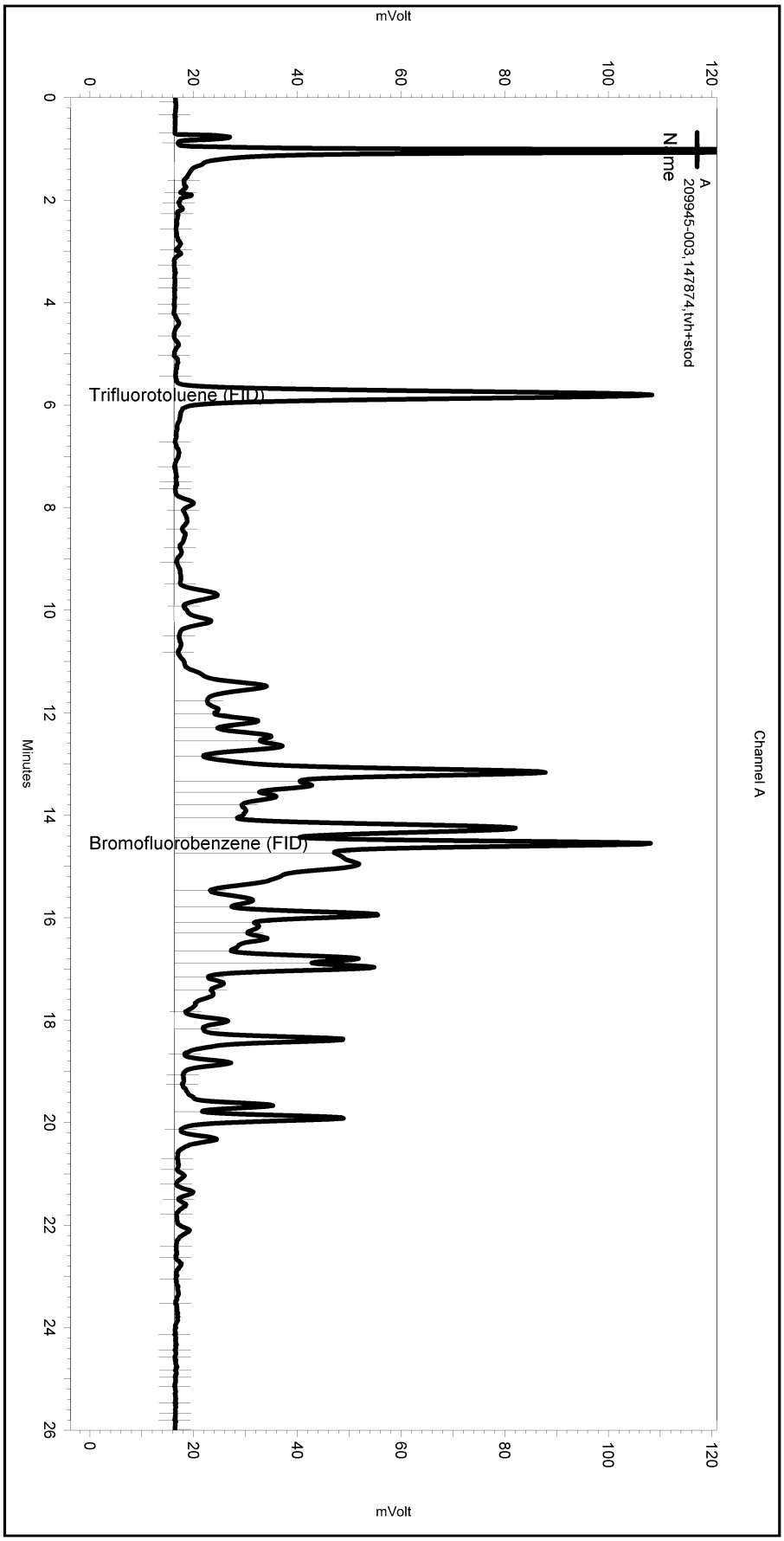
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10047\043_023_8086.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\043.seq**
Sample Name: **209945-003,147874,tvh+stod**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\043_024**
Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe010.met

Software Version 3.1.7
Run Date: 2/12/2009 10:54:44 PM
Analysis Date: 2/12/2009 11:24:14 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

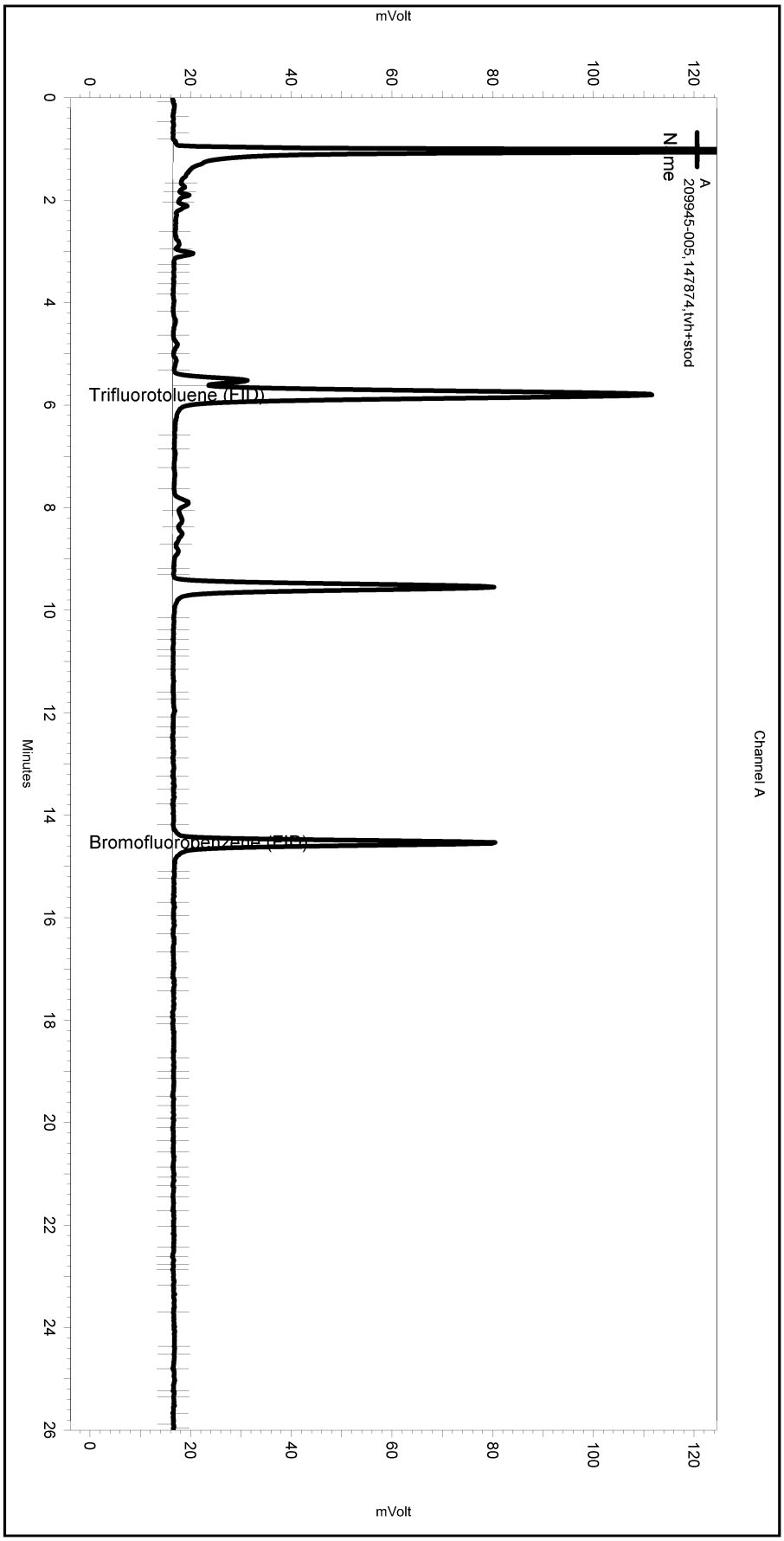
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10047\043_024_8087.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\043.seq**
Sample Name: **209945-005,147874,tvh+stod**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\043_026**
Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe010.met

Software Version 3.1.7
Run Date: 2/13/2009 12:09:53 AM
Analysis Date: 2/13/2009 12:39:22 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

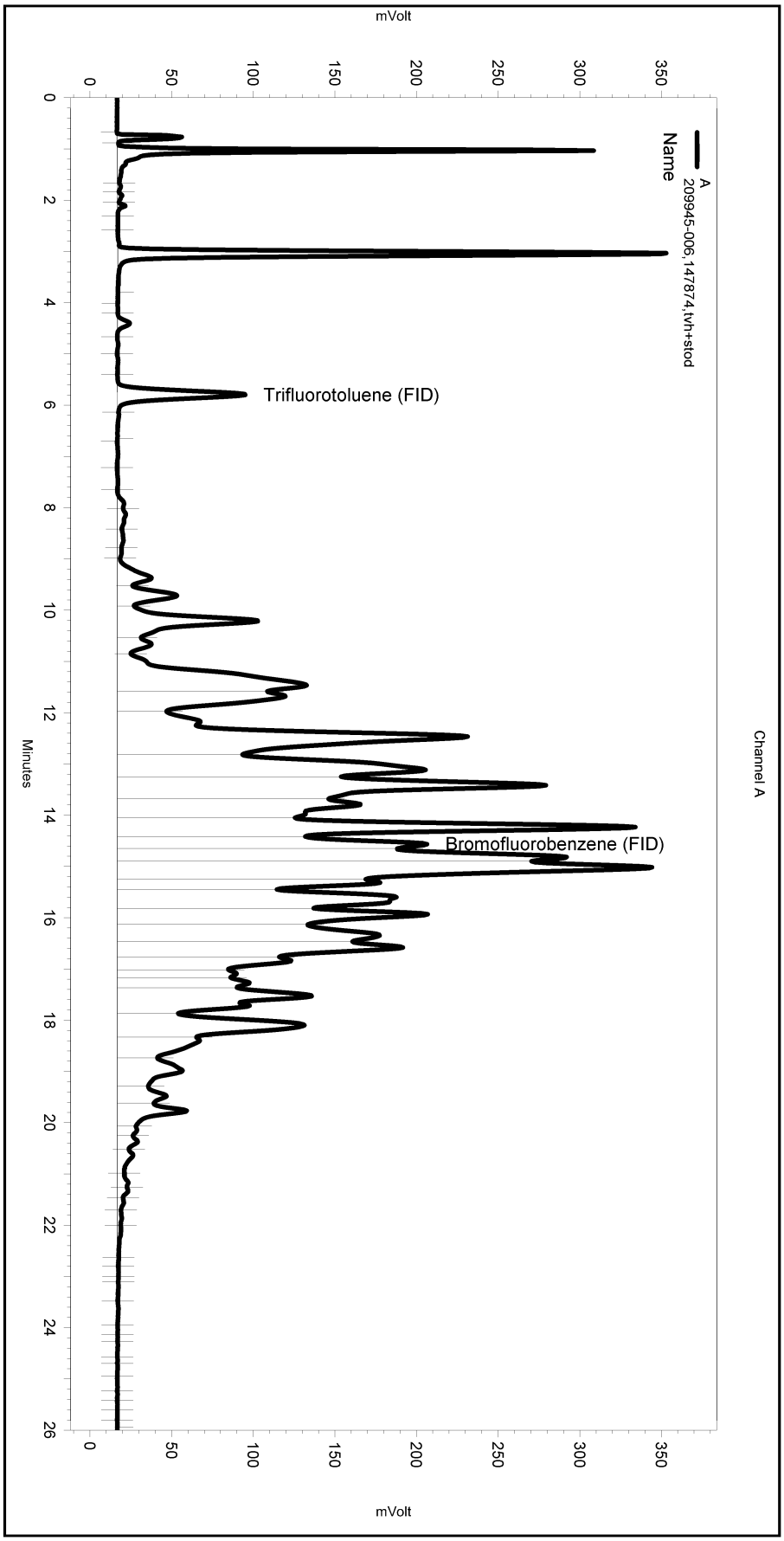
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10047\043_026_8089.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\043.seq**
Sample Name: **209945-006,147874,tvh+stod**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\043_027**
Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe010.met

Software Version 3.1.7
Run Date: 2/13/2009 12:47:27 AM
Analysis Date: 2/13/2009 1:16:56 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

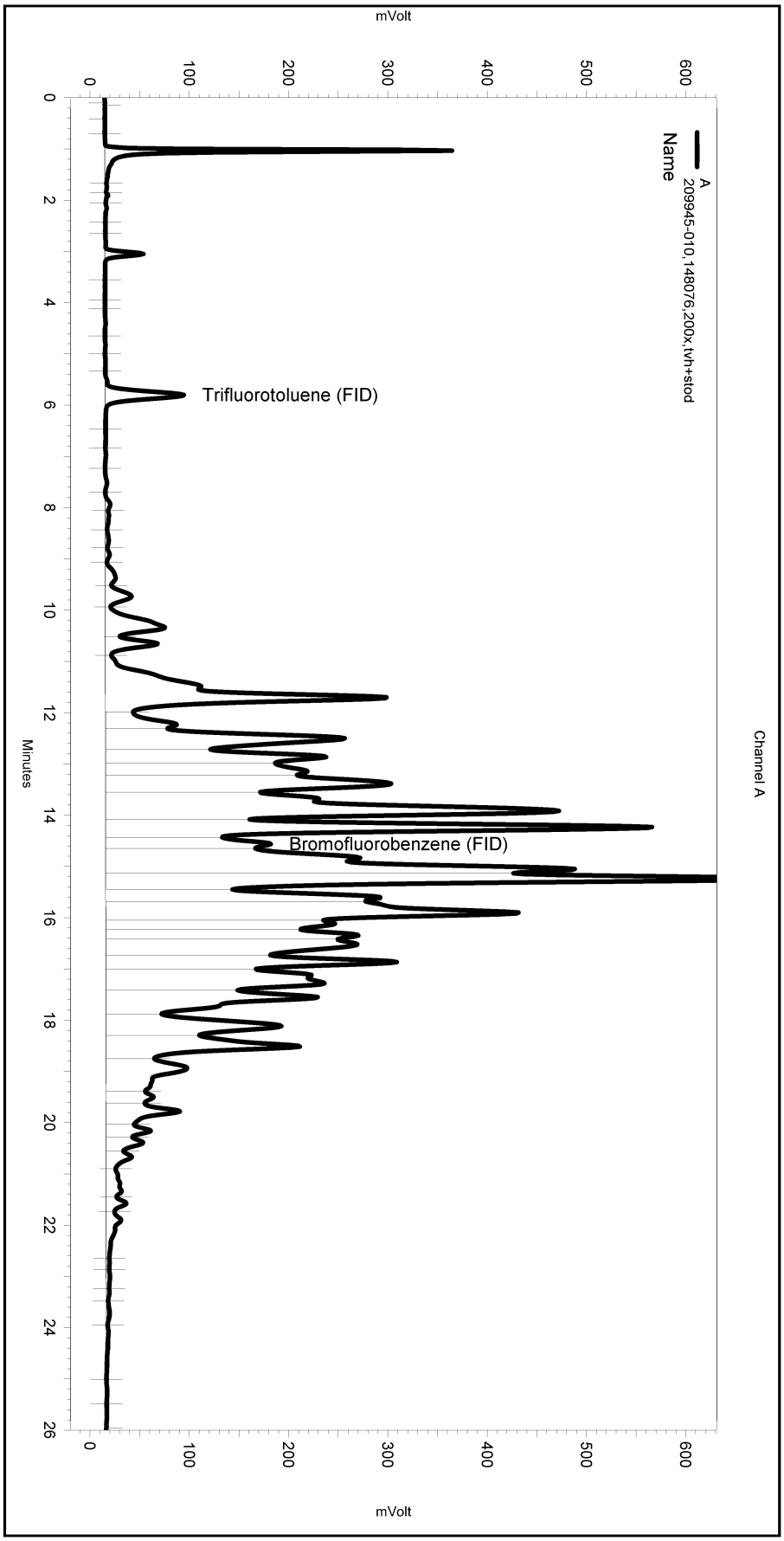
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10047\043_027_808A.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\050.seq**
Sample Name: **209945-010,148076,200x,tvh+stod**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\050_007**
Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe010.met

Software Version 3.1.7
Run Date: 2/19/2009 12:21:36 PM
Analysis Date: 2/19/2009 12:51:04 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: F1.3



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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

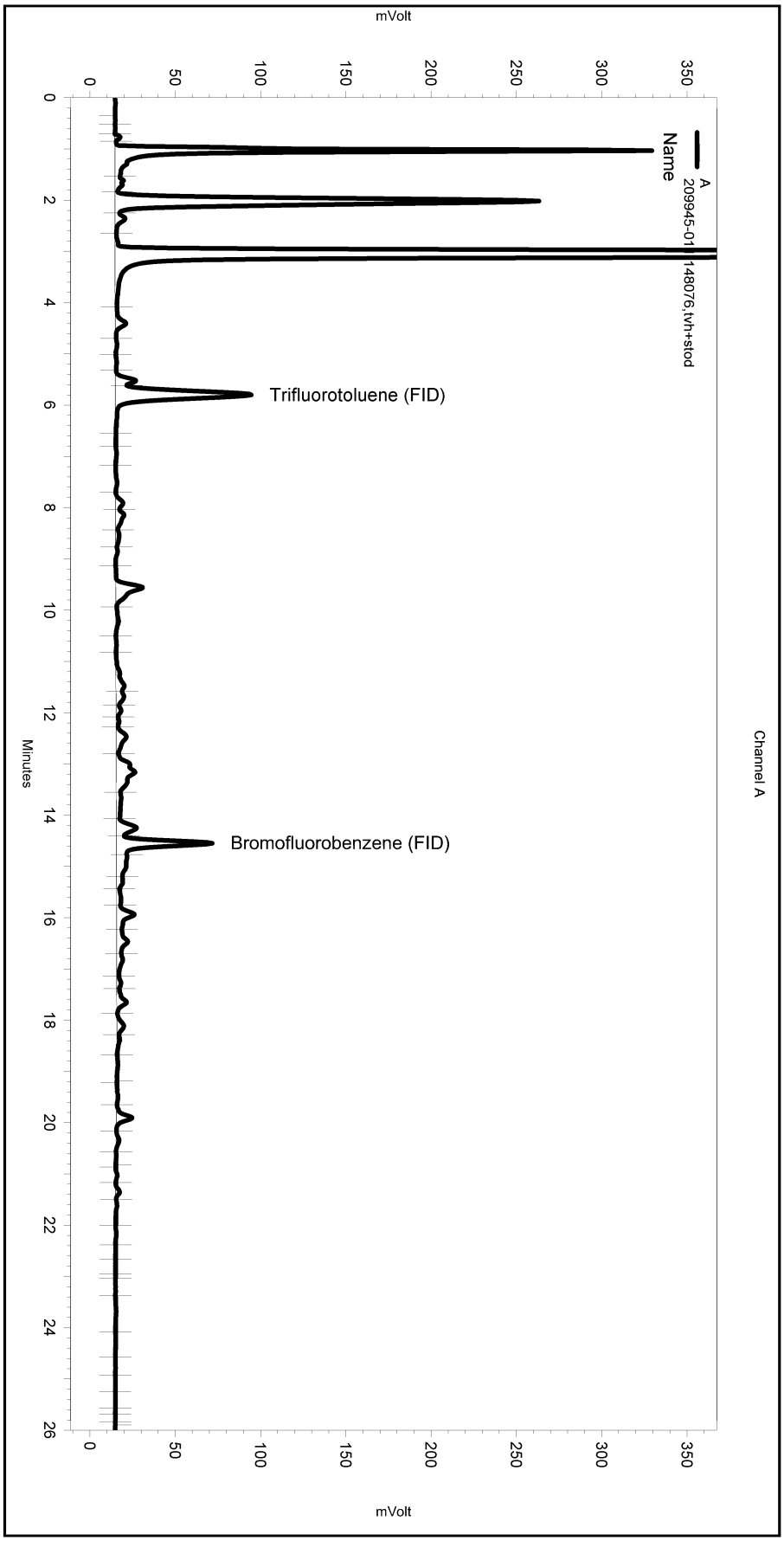
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10047\050_007_80EA.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\050.seq**
Sample Name: **209945-011,148076,tvh+stod**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\050_010**
Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe010.met

Software Version 3.1.7
Run Date: 2/19/2009 2:14:33 PM
Analysis Date: 2/19/2009 2:44:01 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: F1.3



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

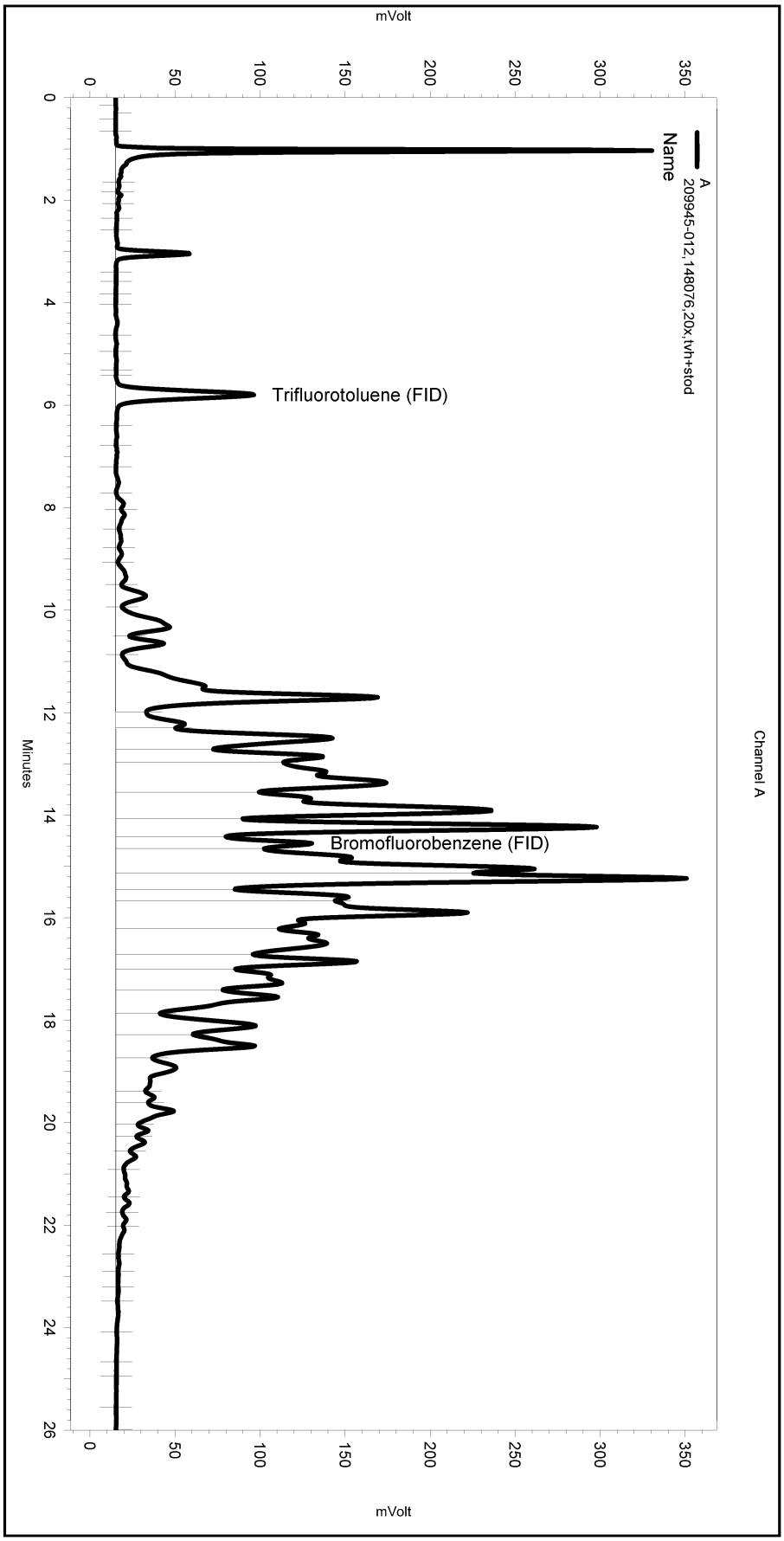
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10047\050_010_80ED.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\050.seq**
Sample Name: **209945-012,148076,20x,tvh+stod**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\050_008**
Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe010.met

Software Version 3.1.7
Run Date: 2/19/2009 12:59:12 PM
Analysis Date: 2/19/2009 1:28:42 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: H1.3



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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

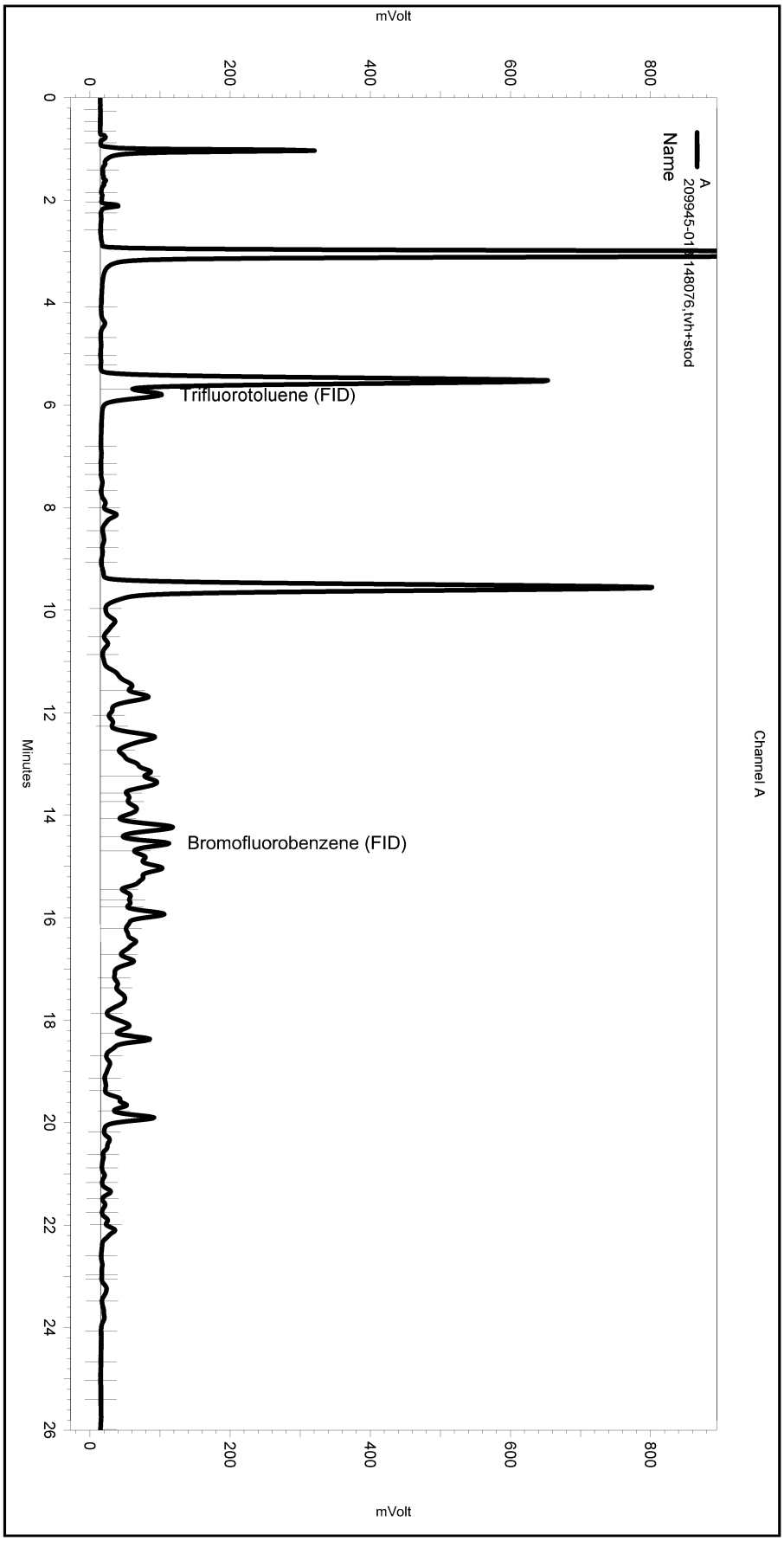
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10047\050_008_80EB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\050.seq**
Sample Name: **209945-013,148076,tvh+stod**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\050_011**
Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe010.met

Software Version 3.1.7
Run Date: 2/19/2009 2:52:14 PM
Analysis Date: 2/19/2009 3:21:44 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: F1.3



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

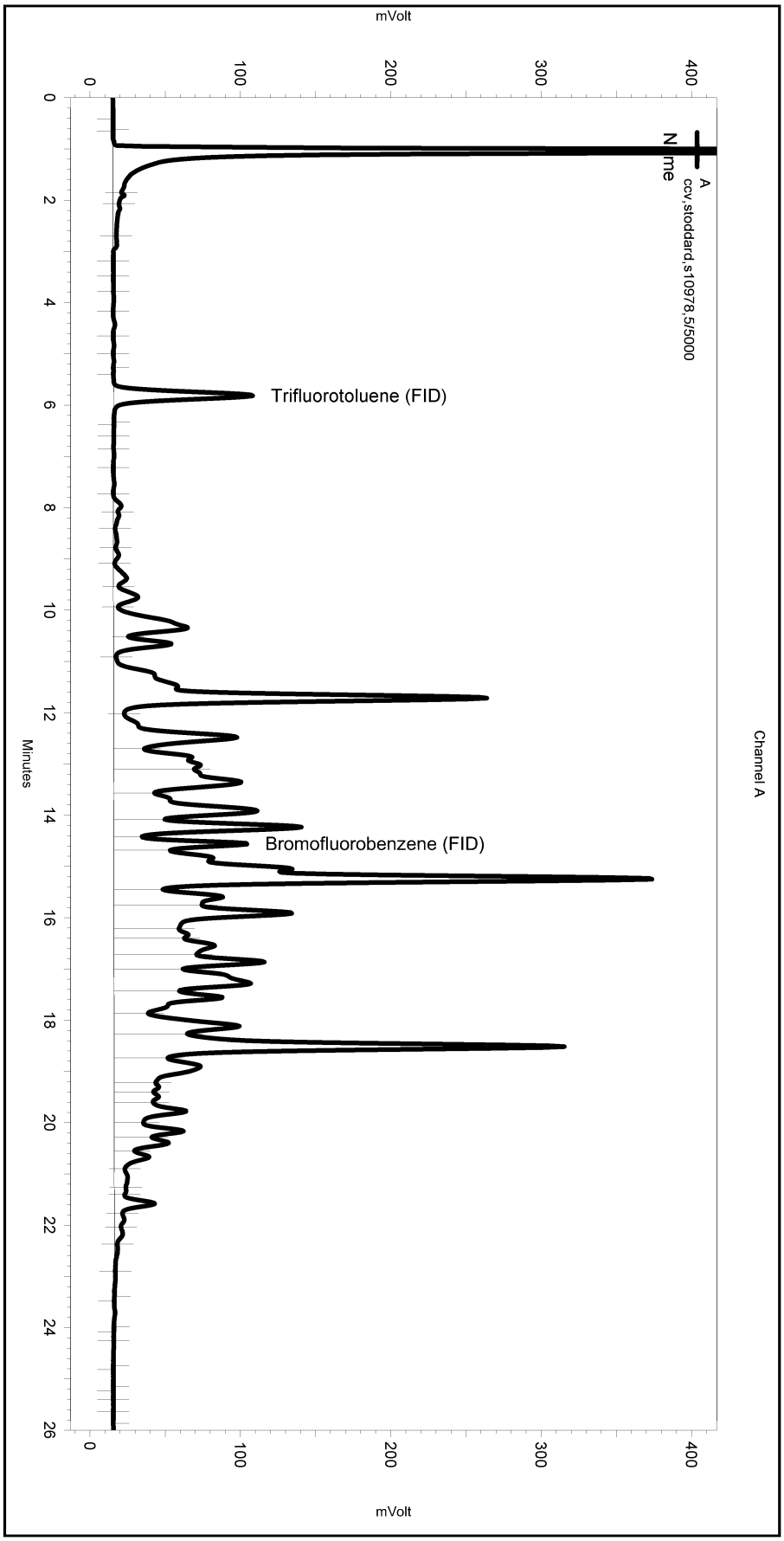
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10047\050_011_80EE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\043.seq**
Sample Name: **ccv,stoddard,s10978,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\043_005**
Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe010.met

Software Version 3.1.7
Run Date: 2/12/2009 10:49:38 AM
Analysis Date: 2/12/2009 11:19:07 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10047\043_005_8074.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	GW-2	Batch#:	147912
Lab ID:	209945-001	Sampled:	02/09/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/13/09
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	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	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	6.2	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	59	0.5
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	GW-2	Batch#:	147912
Lab ID:	209945-001	Sampled:	02/09/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/13/09
Diln Fac:	1.000		

Analyte	Result	RL
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	107	80-125
1,2-Dichloroethane-d4	126	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	118	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	GW-3	Batch#:	147912
Lab ID:	209945-002	Sampled:	02/09/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/14/09
Diln Fac:	5.000		

Analyte	Result	RL
Freon 12	ND	5.0
tert-Butyl Alcohol (TBA)	ND	50
Chloromethane	ND	5.0
Isopropyl Ether (DIPE)	ND	2.5
Vinyl Chloride	ND	2.5
Bromomethane	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	2.5
Chloroethane	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	2.5
Trichlorofluoromethane	ND	5.0
Acetone	ND	50
Freon 113	ND	10
1,1-Dichloroethene	ND	2.5
Methylene Chloride	ND	50
Carbon Disulfide	ND	2.5
MTBE	ND	2.5
trans-1,2-Dichloroethene	ND	2.5
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	2.5
2-Butanone	ND	50
cis-1,2-Dichloroethene	ND	2.5
2,2-Dichloropropane	ND	2.5
Chloroform	ND	2.5
Bromochloromethane	ND	2.5
1,1,1-Trichloroethane	ND	2.5
1,1-Dichloropropene	ND	2.5
Carbon Tetrachloride	ND	2.5
1,2-Dichloroethane	ND	2.5
Benzene	ND	2.5
Trichloroethene	ND	2.5
1,2-Dichloropropane	ND	2.5
Bromodichloromethane	ND	2.5
Dibromomethane	ND	2.5
4-Methyl-2-Pentanone	ND	50
cis-1,3-Dichloropropene	ND	2.5
Toluene	ND	2.5
trans-1,3-Dichloropropene	ND	2.5
1,1,2-Trichloroethane	ND	2.5
2-Hexanone	ND	50
1,3-Dichloropropane	ND	2.5
Tetrachloroethene	330	2.5
Dibromochloromethane	ND	2.5
1,2-Dibromoethane	ND	2.5
Chlorobenzene	ND	2.5
1,1,1,2-Tetrachloroethane	ND	2.5
Ethylbenzene	ND	2.5
m,p-Xylenes	ND	2.5
o-Xylene	ND	2.5
Styrene	ND	2.5
Bromoform	ND	5.0
Isopropylbenzene	ND	2.5
1,1,2,2-Tetrachloroethane	ND	2.5
1,2,3-Trichloropropane	ND	2.5
Propylbenzene	ND	2.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	GW-3	Batch#:	147912
Lab ID:	209945-002	Sampled:	02/09/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/14/09
Diln Fac:	5.000		

Analyte	Result	RL
Bromobenzene	ND	2.5
1,3,5-Trimethylbenzene	ND	2.5
2-Chlorotoluene	ND	2.5
4-Chlorotoluene	ND	2.5
tert-Butylbenzene	ND	2.5
1,2,4-Trimethylbenzene	ND	2.5
sec-Butylbenzene	ND	2.5
para-Isopropyl Toluene	ND	2.5
1,3-Dichlorobenzene	ND	2.5
1,4-Dichlorobenzene	ND	2.5
n-Butylbenzene	ND	2.5
1,2-Dichlorobenzene	ND	2.5
1,2-Dibromo-3-Chloropropane	ND	10
1,2,4-Trichlorobenzene	ND	2.5
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	2.5

Surrogate	%REC	Limits
Dibromofluoromethane	112	80-125
1,2-Dichloroethane-d4	128	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	114	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	GW-4	Batch#:	147945
Lab ID:	209945-003	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/14/09
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	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	10
cis-1,2-Dichloroethene	1.3	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	1.7	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
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	2.2	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	2.1	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	GW-4	Batch#:	147945
Lab ID:	209945-003	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/14/09
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	3.2	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	13	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	3.7	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	103	80-125
1,2-Dichloroethane-d4	109	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	116	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	MW-11	Batch#:	147912
Lab ID:	209945-004	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/13/09
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	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	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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	MW-11	Batch#:	147912
Lab ID:	209945-004	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/13/09
Diln Fac:	1.000		

Analyte	Result	RL
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	109	80-125
1,2-Dichloroethane-d4	117	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	117	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-1	Batch#:	147912
Lab ID:	209945-005	Sampled:	02/09/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/14/09
Diln Fac:	2.000		

Analyte	Result	RL
Freon 12	ND	2.0
tert-Butyl Alcohol (TBA)	ND	20
Chloromethane	ND	2.0
Isopropyl Ether (DIPE)	ND	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	2.0
Ethyl tert-Butyl Ether (ETBE)	ND	1.0
Chloroethane	ND	2.0
Methyl tert-Amyl Ether (TAME)	ND	1.0
Trichlorofluoromethane	ND	2.0
Acetone	ND	20
Freon 113	ND	4.0
1,1-Dichloroethene	ND	1.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	1.0
MTBE	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
Vinyl Acetate	ND	20
1,1-Dichloroethane	ND	1.0
2-Butanone	ND	20
cis-1,2-Dichloroethene	3.1	1.0
2,2-Dichloropropane	ND	1.0
Chloroform	ND	1.0
Bromochloromethane	ND	1.0
1,1,1-Trichloroethane	ND	1.0
1,1-Dichloropropene	ND	1.0
Carbon Tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Benzene	ND	1.0
Trichloroethene	20	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
Dibromomethane	ND	1.0
4-Methyl-2-Pentanone	ND	20
cis-1,3-Dichloropropene	ND	1.0
Toluene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
2-Hexanone	ND	20
1,3-Dichloropropane	ND	1.0
Tetrachloroethene	100	1.0
Dibromochloromethane	ND	1.0
1,2-Dibromoethane	ND	1.0
Chlorobenzene	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0
Ethylbenzene	ND	1.0
m,p-Xylenes	ND	1.0
o-Xylene	ND	1.0
Styrene	ND	1.0
Bromoform	ND	2.0
Isopropylbenzene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,2,3-Trichloropropane	ND	1.0
Propylbenzene	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-1	Batch#:	147912
Lab ID:	209945-005	Sampled:	02/09/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/14/09
Diln Fac:	2.000		

Analyte	Result	RL
Bromobenzene	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0
2-Chlorotoluene	ND	1.0
4-Chlorotoluene	ND	1.0
tert-Butylbenzene	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0
sec-Butylbenzene	ND	1.0
para-Isopropyl Toluene	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
n-Butylbenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	4.0
1,2,4-Trichlorobenzene	ND	1.0
Hexachlorobutadiene	ND	4.0
Naphthalene	ND	4.0
1,2,3-Trichlorobenzene	ND	1.0

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-125
1,2-Dichloroethane-d4	125	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	117	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-2	Batch#:	147945
Lab ID:	209945-006	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/14/09
Diln Fac:	3.333		

Analyte	Result	RL
Freon 12	ND	3.3
tert-Butyl Alcohol (TBA)	ND	33
Chloromethane	ND	3.3
Isopropyl Ether (DIPE)	ND	1.7
Vinyl Chloride	32	1.7
Bromomethane	ND	3.3
Ethyl tert-Butyl Ether (ETBE)	ND	1.7
Chloroethane	ND	3.3
Methyl tert-Amyl Ether (TAME)	ND	1.7
Trichlorofluoromethane	ND	3.3
Acetone	ND	33
Freon 113	ND	6.7
1,1-Dichloroethene	ND	1.7
Methylene Chloride	ND	33
Carbon Disulfide	ND	1.7
MTBE	ND	1.7
trans-1,2-Dichloroethene	2.3	1.7
Vinyl Acetate	ND	33
1,1-Dichloroethane	ND	1.7
2-Butanone	ND	33
cis-1,2-Dichloroethene	330	1.7
2,2-Dichloropropane	ND	1.7
Chloroform	ND	1.7
Bromochloromethane	ND	1.7
1,1,1-Trichloroethane	ND	1.7
1,1-Dichloropropene	ND	1.7
Carbon Tetrachloride	ND	1.7
1,2-Dichloroethane	ND	1.7
Benzene	2.7	1.7
Trichloroethene	ND	1.7
1,2-Dichloropropane	ND	1.7
Bromodichloromethane	ND	1.7
Dibromomethane	ND	1.7
4-Methyl-2-Pentanone	ND	33
cis-1,3-Dichloropropene	ND	1.7
Toluene	ND	1.7
trans-1,3-Dichloropropene	ND	1.7
1,1,2-Trichloroethane	ND	1.7
2-Hexanone	ND	33
1,3-Dichloropropane	ND	1.7
Tetrachloroethene	ND	1.7
Dibromochloromethane	ND	1.7
1,2-Dibromoethane	ND	1.7
Chlorobenzene	ND	1.7
1,1,1,2-Tetrachloroethane	ND	1.7
Ethylbenzene	ND	1.7
m,p-Xylenes	ND	1.7
o-Xylene	ND	1.7
Styrene	ND	1.7
Bromoform	ND	3.3
Isopropylbenzene	ND	1.7
1,1,2,2-Tetrachloroethane	ND	1.7
1,2,3-Trichloropropane	ND	1.7
Propylbenzene	ND	1.7

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-2	Batch#:	147945
Lab ID:	209945-006	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/14/09
Diln Fac:	3.333		

Analyte	Result	RL
Bromobenzene	ND	1.7
1,3,5-Trimethylbenzene	ND	1.7
2-Chlorotoluene	ND	1.7
4-Chlorotoluene	ND	1.7
tert-Butylbenzene	ND	1.7
1,2,4-Trimethylbenzene	ND	1.7
sec-Butylbenzene	ND	1.7
para-Isopropyl Toluene	ND	1.7
1,3-Dichlorobenzene	ND	1.7
1,4-Dichlorobenzene	ND	1.7
n-Butylbenzene	ND	1.7
1,2-Dichlorobenzene	ND	1.7
1,2-Dibromo-3-Chloropropane	ND	6.7
1,2,4-Trichlorobenzene	ND	1.7
Hexachlorobutadiene	ND	6.7
Naphthalene	ND	6.7
1,2,3-Trichlorobenzene	ND	1.7

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-125
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	106	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-3	Batch#:	147912
Lab ID:	209945-007	Sampled:	02/09/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/13/09
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	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	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	1.5	0.5
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-3	Batch#:	147912
Lab ID:	209945-007	Sampled:	02/09/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/13/09
Diln Fac:	1.000		

Analyte	Result	RL
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	106	80-125
1,2-Dichloroethane-d4	125	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	117	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-4	Batch#:	147958
Lab ID:	209945-008	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/17/09
Diln Fac:	1.000		

Analyte	Result		RL
Freon 12	ND		1.0
tert-Butyl Alcohol (TBA)	ND		10
Chloromethane	ND		1.0
Isopropyl Ether (DIPE)	ND		0.5
Vinyl Chloride	ND		0.5
Bromomethane	ND		1.0
Ethyl tert-Butyl Ether (ETBE)	ND		0.5
Chloroethane	ND		1.0
Methyl tert-Amyl Ether (TAME)	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		2.5	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		0.7	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		2.1	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
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		1.2	0.5
1,1,2,2-Tetrachloroethane	ND		0.5
1,2,3-Trichloropropane	ND		0.5
Propylbenzene	ND		0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-4	Batch#:	147958
Lab ID:	209945-008	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/17/09
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	0.9	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	1.5	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	80-125
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	107	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-1	Batch#:	147958
Lab ID:	209945-009	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/17/09
Diln Fac:	5.000		

Analyte	Result	RL
Freon 12	ND	5.0
tert-Butyl Alcohol (TBA)	ND	50
Chloromethane	ND	5.0
Isopropyl Ether (DIPE)	5.6	2.5
Vinyl Chloride	ND	2.5
Bromomethane	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	2.5
Chloroethane	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	2.5
Trichlorofluoromethane	ND	5.0
Acetone	ND	50
Freon 113	ND	10
1,1-Dichloroethene	ND	2.5
Methylene Chloride	ND	50
Carbon Disulfide	ND	2.5
MTBE	370	2.5
trans-1,2-Dichloroethene	2.8	2.5
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	2.5
2-Butanone	ND	50
cis-1,2-Dichloroethene	290	2.5
2,2-Dichloropropane	ND	2.5
Chloroform	ND	2.5
Bromochloromethane	ND	2.5
1,1,1-Trichloroethane	ND	2.5
1,1-Dichloropropene	ND	2.5
Carbon Tetrachloride	ND	2.5
1,2-Dichloroethane	ND	2.5
Benzene	ND	2.5
Trichloroethene	6.7	2.5
1,2-Dichloropropane	3.5	2.5
Bromodichloromethane	ND	2.5
Dibromomethane	ND	2.5
4-Methyl-2-Pentanone	ND	50
cis-1,3-Dichloropropene	ND	2.5
Toluene	ND	2.5
trans-1,3-Dichloropropene	ND	2.5
1,1,2-Trichloroethane	ND	2.5
2-Hexanone	ND	50
1,3-Dichloropropane	ND	2.5
Tetrachloroethene	85	2.5
Dibromochloromethane	ND	2.5
1,2-Dibromoethane	ND	2.5
Chlorobenzene	ND	2.5
1,1,1,2-Tetrachloroethane	ND	2.5
Ethylbenzene	ND	2.5
m,p-Xylenes	ND	2.5
o-Xylene	ND	2.5
Styrene	ND	2.5
Bromoform	ND	5.0
Isopropylbenzene	ND	2.5
1,1,2,2-Tetrachloroethane	ND	2.5
1,2,3-Trichloropropane	ND	2.5
Propylbenzene	ND	2.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-1	Batch#:	147958
Lab ID:	209945-009	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/17/09
Diln Fac:	5.000		

Analyte	Result	RL
Bromobenzene	ND	2.5
1,3,5-Trimethylbenzene	ND	2.5
2-Chlorotoluene	ND	2.5
4-Chlorotoluene	ND	2.5
tert-Butylbenzene	ND	2.5
1,2,4-Trimethylbenzene	ND	2.5
sec-Butylbenzene	ND	2.5
para-Isopropyl Toluene	ND	2.5
1,3-Dichlorobenzene	ND	2.5
1,4-Dichlorobenzene	ND	2.5
n-Butylbenzene	ND	2.5
1,2-Dichlorobenzene	ND	2.5
1,2-Dibromo-3-Chloropropane	ND	10
1,2,4-Trichlorobenzene	ND	2.5
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	2.5

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-2	Batch#:	148110
Lab ID:	209945-010	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/21/09
Diln Fac:	100.0		

Analyte	Result	RL
Freon 12	ND	100
tert-Butyl Alcohol (TBA)	ND	1,000
Chloromethane	ND	100
Isopropyl Ether (DIPE)	ND	50
Vinyl Chloride	ND	50
Bromomethane	ND	100
Ethyl tert-Butyl Ether (ETBE)	ND	50
Chloroethane	ND	100
Methyl tert-Amyl Ether (TAME)	ND	50
Trichlorofluoromethane	ND	100
Acetone	ND	1,000
Freon 113	ND	200
1,1-Dichloroethene	ND	50
Methylene Chloride	ND	1,000
Carbon Disulfide	ND	50
MTBE	ND	50
trans-1,2-Dichloroethene	ND	50
Vinyl Acetate	ND	1,000
1,1-Dichloroethane	ND	50
2-Butanone	ND	1,000
cis-1,2-Dichloroethene	5,900	50
2,2-Dichloropropane	ND	50
Chloroform	ND	50
Bromochloromethane	ND	50
1,1,1-Trichloroethane	ND	50
1,1-Dichloropropene	ND	50
Carbon Tetrachloride	ND	50
1,2-Dichloroethane	ND	50
Benzene	ND	50
Trichloroethene	390	50
1,2-Dichloropropane	ND	50
Bromodichloromethane	ND	50
Dibromomethane	ND	50
4-Methyl-2-Pentanone	ND	1,000
cis-1,3-Dichloropropene	ND	50
Toluene	ND	50
trans-1,3-Dichloropropene	ND	50
1,1,2-Trichloroethane	ND	50
2-Hexanone	ND	1,000
1,3-Dichloropropane	ND	50
Tetrachloroethene	170	50
Dibromochloromethane	ND	50
1,2-Dibromoethane	ND	50
Chlorobenzene	ND	50
1,1,1,2-Tetrachloroethane	ND	50
Ethylbenzene	ND	50
m,p-Xylenes	ND	50
o-Xylene	ND	50
Styrene	ND	50
Bromoform	ND	100
Isopropylbenzene	ND	50
1,1,2,2-Tetrachloroethane	ND	50
1,2,3-Trichloropropane	ND	50
Propylbenzene	ND	50

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-2	Batch#:	148110
Lab ID:	209945-010	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/21/09
Diln Fac:	100.0		

Analyte	Result	RL
Bromobenzene	ND	50
1,3,5-Trimethylbenzene	73	50
2-Chlorotoluene	ND	50
4-Chlorotoluene	ND	50
tert-Butylbenzene	ND	50
1,2,4-Trimethylbenzene	190	50
sec-Butylbenzene	ND	50
para-Isopropyl Toluene	ND	50
1,3-Dichlorobenzene	ND	50
1,4-Dichlorobenzene	ND	50
n-Butylbenzene	ND	50
1,2-Dichlorobenzene	ND	50
1,2-Dibromo-3-Chloropropane	ND	200
1,2,4-Trichlorobenzene	ND	50
Hexachlorobutadiene	ND	200
Naphthalene	ND	200
1,2,3-Trichlorobenzene	ND	50

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-125
1,2-Dichloroethane-d4	116	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-3	Batch#:	147957
Lab ID:	209945-011	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/17/09
Diln Fac:	25.00		

Analyte	Result	RL
Freon 12	ND	25
tert-Butyl Alcohol (TBA)	ND	250
Chloromethane	ND	25
Isopropyl Ether (DIPE)	ND	13
Vinyl Chloride	ND	13
Bromomethane	ND	25
Ethyl tert-Butyl Ether (ETBE)	ND	13
Chloroethane	ND	25
Methyl tert-Amyl Ether (TAME)	ND	13
Trichlorofluoromethane	ND	25
Acetone	ND	250
Freon 113	ND	50
1,1-Dichloroethene	ND	13
Methylene Chloride	ND	250
Carbon Disulfide	ND	13
MTBE	280	13
trans-1,2-Dichloroethene	13	13
Vinyl Acetate	ND	250
1,1-Dichloroethane	ND	13
2-Butanone	ND	250
cis-1,2-Dichloroethene	1,800	13
2,2-Dichloropropane	ND	13
Chloroform	ND	13
Bromochloromethane	ND	13
1,1,1-Trichloroethane	ND	13
1,1-Dichloropropene	ND	13
Carbon Tetrachloride	ND	13
1,2-Dichloroethane	ND	13
Benzene	ND	13
Trichloroethene	14	13
1,2-Dichloropropane	ND	13
Bromodichloromethane	ND	13
Dibromomethane	ND	13
4-Methyl-2-Pentanone	ND	250
cis-1,3-Dichloropropene	ND	13
Toluene	ND	13
trans-1,3-Dichloropropene	ND	13
1,1,2-Trichloroethane	ND	13
2-Hexanone	ND	250
1,3-Dichloropropane	ND	13
Tetrachloroethene	24	13
Dibromochloromethane	ND	13
1,2-Dibromoethane	ND	13
Chlorobenzene	ND	13
1,1,1,2-Tetrachloroethane	ND	13
Ethylbenzene	ND	13
m,p-Xylenes	ND	13
o-Xylene	ND	13
Styrene	ND	13
Bromoform	ND	25
Isopropylbenzene	ND	13
1,1,2,2-Tetrachloroethane	ND	13
1,2,3-Trichloropropane	ND	13
Propylbenzene	ND	13

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-3	Batch#:	147957
Lab ID:	209945-011	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/17/09
Diln Fac:	25.00		

Analyte	Result	RL
Bromobenzene	ND	13
1,3,5-Trimethylbenzene	ND	13
2-Chlorotoluene	ND	13
4-Chlorotoluene	ND	13
tert-Butylbenzene	ND	13
1,2,4-Trimethylbenzene	ND	13
sec-Butylbenzene	ND	13
para-Isopropyl Toluene	ND	13
1,3-Dichlorobenzene	ND	13
1,4-Dichlorobenzene	ND	13
n-Butylbenzene	ND	13
1,2-Dichlorobenzene	ND	13
1,2-Dibromo-3-Chloropropane	ND	50
1,2,4-Trichlorobenzene	ND	13
Hexachlorobutadiene	ND	50
Naphthalene	ND	50
1,2,3-Trichlorobenzene	ND	13

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-125
1,2-Dichloroethane-d4	110	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-4	Batch#:	148110
Lab ID:	209945-012	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/20/09
Diln Fac:	10.00		

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	5.0
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
Trichlorofluoromethane	ND	10
Acetone	110	100
Freon 113	ND	20
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	100
Carbon Disulfide	ND	5.0
MTBE	18	5.0
trans-1,2-Dichloroethene	5.1	5.0
Vinyl Acetate	ND	100
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	100
cis-1,2-Dichloroethene	830	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
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	100
cis-1,3-Dichloropropene	ND	5.0
Toluene	16	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	100
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	13	5.0
o-Xylene	16	5.0
Styrene	ND	5.0
Bromoform	ND	10
Isopropylbenzene	7.3	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	12	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-4	Batch#:	148110
Lab ID:	209945-012	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/20/09
Diln Fac:	10.00		

Analyte	Result	RL
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	44	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	73	5.0
sec-Butylbenzene	8.8	5.0
para-Isopropyl Toluene	8.7	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	13	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	20
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	20
Naphthalene	23	20
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-125
1,2-Dichloroethane-d4	117	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	104	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	B-10	Batch#:	148110
Lab ID:	209945-013	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/21/09
Diln Fac:	40.00		

Analyte	Result	RL
Freon 12	ND	40
tert-Butyl Alcohol (TBA)	ND	400
Chloromethane	ND	40
Isopropyl Ether (DIPE)	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	40
Ethyl tert-Butyl Ether (ETBE)	ND	20
Chloroethane	ND	40
Methyl tert-Amyl Ether (TAME)	ND	20
Trichlorofluoromethane	ND	40
Acetone	ND	400
Freon 113	ND	80
1,1-Dichloroethene	ND	20
Methylene Chloride	ND	400
Carbon Disulfide	ND	20
MTBE	ND	20
trans-1,2-Dichloroethene	ND	20
Vinyl Acetate	ND	400
1,1-Dichloroethane	ND	20
2-Butanone	ND	400
cis-1,2-Dichloroethene	2,900	20
2,2-Dichloropropane	ND	20
Chloroform	ND	20
Bromochloromethane	ND	20
1,1,1-Trichloroethane	ND	20
1,1-Dichloropropene	ND	20
Carbon Tetrachloride	ND	20
1,2-Dichloroethane	ND	20
Benzene	ND	20
Trichloroethene	1,200	20
1,2-Dichloropropane	ND	20
Bromodichloromethane	ND	20
Dibromomethane	ND	20
4-Methyl-2-Pentanone	ND	400
cis-1,3-Dichloropropene	ND	20
Toluene	ND	20
trans-1,3-Dichloropropene	ND	20
1,1,2-Trichloroethane	ND	20
2-Hexanone	ND	400
1,3-Dichloropropane	ND	20
Tetrachloroethene	1,200	20
Dibromochloromethane	ND	20
1,2-Dibromoethane	ND	20
Chlorobenzene	ND	20
1,1,1,2-Tetrachloroethane	ND	20
Ethylbenzene	ND	20
m,p-Xylenes	ND	20
o-Xylene	ND	20
Styrene	ND	20
Bromoform	ND	40
Isopropylbenzene	ND	20
1,1,2,2-Tetrachloroethane	ND	20
1,2,3-Trichloropropane	ND	20
Propylbenzene	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	B-10	Batch#:	148110
Lab ID:	209945-013	Sampled:	02/10/09
Matrix:	Water	Received:	02/11/09
Units:	ug/L	Analyzed:	02/21/09
Diln Fac:	40.00		

Analyte	Result	RL
Bromobenzene	ND	20
1,3,5-Trimethylbenzene	ND	20
2-Chlorotoluene	ND	20
4-Chlorotoluene	ND	20
tert-Butylbenzene	ND	20
1,2,4-Trimethylbenzene	ND	20
sec-Butylbenzene	ND	20
para-Isopropyl Toluene	ND	20
1,3-Dichlorobenzene	ND	20
1,4-Dichlorobenzene	ND	20
n-Butylbenzene	ND	20
1,2-Dichlorobenzene	ND	20
1,2-Dibromo-3-Chloropropane	ND	80
1,2,4-Trichlorobenzene	ND	20
Hexachlorobutadiene	ND	80
Naphthalene	ND	80
1,2,3-Trichlorobenzene	ND	20

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-125
1,2-Dichloroethane-d4	114	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	147912
Units:	ug/L	Analyzed:	02/13/09
Diln Fac:	1.000		

Type: BS Lab ID: QC483313

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	81.37	81	59-152
Isopropyl Ether (DIPE)	20.00	14.51	73	67-126
Ethyl tert-Butyl Ether (ETBE)	20.00	17.85	89	69-127
Methyl tert-Amyl Ether (TAME)	20.00	19.66	98	80-122
1,1-Dichloroethene	20.00	18.67	93	73-133
Benzene	20.00	18.54	93	80-120
Trichloroethene	20.00	21.71	109	80-120
Toluene	20.00	19.33	97	80-120
Chlorobenzene	20.00	18.99	95	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-125
1,2-Dichloroethane-d4	90	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	109	80-122

Type: BSD Lab ID: QC483314

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	85.27	85	59-152	5	20
Isopropyl Ether (DIPE)	20.00	14.79	74	67-126	2	20
Ethyl tert-Butyl Ether (ETBE)	20.00	18.30	91	69-127	2	20
Methyl tert-Amyl Ether (TAME)	20.00	18.75	94	80-122	5	20
1,1-Dichloroethene	20.00	18.27	91	73-133	2	20
Benzene	20.00	18.03	90	80-120	3	20
Trichloroethene	20.00	21.35	107	80-120	2	20
Toluene	20.00	19.27	96	80-120	0	20
Chlorobenzene	20.00	18.84	94	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-125
1,2-Dichloroethane-d4	93	80-137
Toluene-d8	94	80-120
Bromofluorobenzene	107	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC483315	Batch#:	147912
Matrix:	Water	Analyzed:	02/13/09
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	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	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
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

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC483315	Batch#:	147912
Matrix:	Water	Analyzed:	02/13/09
Units:	ug/L		

Analyte	Result	RL
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	101	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	110	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	147945
Units:	ug/L	Analyzed:	02/14/09
Diln Fac:	1.000		

Type: BS Lab ID: QC483427

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	97.32	97	59-152
Isopropyl Ether (DIPE)	20.00	20.50	103	67-126
Ethyl tert-Butyl Ether (ETBE)	20.00	21.73	109	69-127
Methyl tert-Amyl Ether (TAME)	20.00	20.26	101	80-122
1,1-Dichloroethene	20.00	22.48	112	73-133
Benzene	20.00	19.79	99	80-120
Trichloroethene	20.00	19.09	95	80-120
Toluene	20.00	19.23	96	80-120
Chlorobenzene	20.00	19.44	97	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-125
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	104	80-122

Type: BSD Lab ID: QC483428

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	84.97	85	59-152	14	20
Isopropyl Ether (DIPE)	20.00	20.58	103	67-126	0	20
Ethyl tert-Butyl Ether (ETBE)	20.00	20.92	105	69-127	4	20
Methyl tert-Amyl Ether (TAME)	20.00	20.12	101	80-122	1	20
1,1-Dichloroethene	20.00	21.80	109	73-133	3	20
Benzene	20.00	19.79	99	80-120	0	20
Trichloroethene	20.00	19.42	97	80-120	2	20
Toluene	20.00	19.25	96	80-120	0	20
Chlorobenzene	20.00	19.13	96	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Dil'n Fac:	1.000
Lab ID:	QC483429	Batch#:	147945
Matrix:	Water	Analyzed:	02/14/09
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	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	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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC483429	Batch#:	147945
Matrix:	Water	Analyzed:	02/14/09
Units:	ug/L		

Analyte	Result	RL
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	104	80-125
1,2-Dichloroethane-d4	105	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	147957
Units:	ug/L	Analyzed:	02/17/09
Diln Fac:	1.000		

Type: BS Lab ID: QC483469

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	101.8	102	59-152
Isopropyl Ether (DIPE)	20.00	20.52	103	67-126
Ethyl tert-Butyl Ether (ETBE)	20.00	20.89	104	69-127
Methyl tert-Amyl Ether (TAME)	20.00	20.27	101	80-122
1,1-Dichloroethene	20.00	20.10	100	73-133
Benzene	20.00	19.96	100	80-120
Trichloroethene	20.00	18.79	94	80-120
Toluene	20.00	19.99	100	80-120
Chlorobenzene	20.00	19.94	100	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	97	80-122

Type: BSD Lab ID: QC483470

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	87.79	88	59-152	15	20
Isopropyl Ether (DIPE)	20.00	20.61	103	67-126	0	20
Ethyl tert-Butyl Ether (ETBE)	20.00	20.98	105	69-127	0	20
Methyl tert-Amyl Ether (TAME)	20.00	19.50	97	80-122	4	20
1,1-Dichloroethene	20.00	19.99	100	73-133	1	20
Benzene	20.00	19.37	97	80-120	3	20
Trichloroethene	20.00	18.17	91	80-120	3	20
Toluene	20.00	18.42	92	80-120	8	20
Chlorobenzene	20.00	19.60	98	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-125
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC483471	Batch#:	147957
Matrix:	Water	Analyzed:	02/17/09
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	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	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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC483471	Batch#:	147957
Matrix:	Water	Analyzed:	02/17/09
Units:	ug/L		

Analyte	Result	RL
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	102	80-125
1,2-Dichloroethane-d4	102	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	147958
Units:	ug/L	Analyzed:	02/17/09
Diln Fac:	1.000		

Type: BS Lab ID: QC483472

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	89.16	89	59-152
Isopropyl Ether (DIPE)	20.00	19.29	96	67-126
Ethyl tert-Butyl Ether (ETBE)	20.00	20.66	103	69-127
Methyl tert-Amyl Ether (TAME)	20.00	20.36	102	80-122
1,1-Dichloroethene	20.00	22.46	112	73-133
Benzene	20.00	20.36	102	80-120
Trichloroethene	20.00	20.08	100	80-120
Toluene	20.00	19.78	99	80-120
Chlorobenzene	20.00	20.12	101	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-125
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-122

Type: BSD Lab ID: QC483473

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	68.35	68	59-152	26 *	20
Isopropyl Ether (DIPE)	20.00	18.60	93	67-126	4	20
Ethyl tert-Butyl Ether (ETBE)	20.00	19.43	97	69-127	6	20
Methyl tert-Amyl Ether (TAME)	20.00	19.44	97	80-122	5	20
1,1-Dichloroethene	20.00	22.10	111	73-133	2	20
Benzene	20.00	20.21	101	80-120	1	20
Trichloroethene	20.00	20.23	101	80-120	1	20
Toluene	20.00	20.03	100	80-120	1	20
Chlorobenzene	20.00	20.07	100	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-125
1,2-Dichloroethane-d4	94	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-122

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC483474	Batch#:	147958
Matrix:	Water	Analyzed:	02/17/09
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	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	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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC483474	Batch#:	147958
Matrix:	Water	Analyzed:	02/17/09
Units:	ug/L		

Analyte	Result	RL
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	99	80-125
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	148110
Units:	ug/L	Analyzed:	02/20/09
Diln Fac:	1.000		

Type: BS Lab ID: QC484091

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	76.45	76	59-152
Isopropyl Ether (DIPE)	20.00	18.56	93	67-126
Ethyl tert-Butyl Ether (ETBE)	20.00	19.62	98	69-127
Methyl tert-Amyl Ether (TAME)	20.00	19.01	95	80-122
1,1-Dichloroethene	20.00	20.80	104	73-133
Benzene	20.00	19.31	97	80-120
Trichloroethene	20.00	18.84	94	80-120
Toluene	20.00	18.69	93	80-120
Chlorobenzene	20.00	19.16	96	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-125
1,2-Dichloroethane-d4	105	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-122

Type: BSD Lab ID: QC484092

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	83.75	84	59-152	9	20
Isopropyl Ether (DIPE)	20.00	18.42	92	67-126	1	20
Ethyl tert-Butyl Ether (ETBE)	20.00	19.56	98	69-127	0	20
Methyl tert-Amyl Ether (TAME)	20.00	19.54	98	80-122	3	20
1,1-Dichloroethene	20.00	21.03	105	73-133	1	20
Benzene	20.00	19.37	97	80-120	0	20
Trichloroethene	20.00	19.35	97	80-120	3	20
Toluene	20.00	18.95	95	80-120	1	20
Chlorobenzene	20.00	19.50	98	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-125
1,2-Dichloroethane-d4	106	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	99	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC484206	Batch#:	148110
Matrix:	Water	Analyzed:	02/20/09
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	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	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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC484206	Batch#:	148110
Matrix:	Water	Analyzed:	02/20/09
Units:	ug/L		

Analyte	Result	RL
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	102	80-125
1,2-Dichloroethane-d4	109	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	103	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Gases

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2511	Analysis:	RSK-175
Analyte:	Methane	Units:	mg/L
Matrix:	Water	Received:	02/11/09

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
GW-2	SAMPLE	209945-001	ND	0.0050	1.000	147933	02/09/09	02/13/09
GW-3	SAMPLE	209945-002	ND	0.0050	1.000	147933	02/09/09	02/13/09
GW-4	SAMPLE	209945-003	2.4	0.0050	1.000	147933	02/10/09	02/13/09
MW-11	SAMPLE	209945-004	ND	0.0050	1.000	147933	02/10/09	02/13/09
LFR-1	SAMPLE	209945-005	ND	0.0050	1.000	147933	02/09/09	02/13/09
LFR-2	SAMPLE	209945-006	3.7	0.025	5.000	147981	02/10/09	02/17/09
LFR-3	SAMPLE	209945-007	ND	0.0050	1.000	147933	02/09/09	02/13/09
LFR-4	SAMPLE	209945-008	4.4	0.025	5.000	147981	02/10/09	02/17/09
SOMA-1	SAMPLE	209945-009	1.2	0.0050	1.000	147933	02/10/09	02/13/09
SOMA-2	SAMPLE	209945-010	2.5	0.0050	1.000	147933	02/10/09	02/13/09
SOMA-3	SAMPLE	209945-011	0.83	0.0050	1.000	147933	02/10/09	02/13/09
SOMA-4	SAMPLE	209945-012	2.2	0.0050	1.000	147933	02/10/09	02/13/09
B-10	SAMPLE	209945-013	2.0	0.0050	1.000	147933	02/10/09	02/13/09
	BLANK	QC483390	ND	0.0050	1.000	147933		02/13/09
	BLANK	QC483570	ND	0.0050	1.000	147981		02/17/09

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Gases

Lab #:	209945	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2511	Analysis:	RSK-175
Analyte:	Methane	Units:	mg/L
Matrix:	Water	Diln Fac:	1.000

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim	Batch#	Analyzed
BS	QC483388	0.6544	0.5736	88	80-120			147933	02/13/09
BSD	QC483389	0.6544	0.6508	99	80-120	13	20	147933	02/13/09
BS	QC483568	0.6544	0.6057	93	80-120			147981	02/17/09
BSD	QC483569	0.6544	0.6705	102	80-120	10	20	147981	02/17/09

RPD= Relative Percent Difference

APPENDIX D

MPE Event Field Data Sheets

Golden Gate Remediation Technology

SITE ADDRESS: 3820 Manila Ave, Oakland, California
PROJECT #: 2514

MTS OPERATIONAL DATA

DATE	TIME	PUMP TEMPERATURE (F)	CONDENSER TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	CASING VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	PITOT TUBE Δ PRESSURE (IN H20)	PUMP OUTLET (Psi)	TOTAL FLOW RATE (SCFM)	DILUTION FLOW RATE (SCFM)	WELL FLOW RATE (SCFM)	EFFLUENT TEMPERATURE (F)	INFLUENT CONCENTRATION (PPMV)	MID EFFLUENT CONCENTRATION (PPMV)	END EFFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER	POWER USAGE (KWH)
12/17/2008	700	carbon change out, prep. system and extraction wells to continue pilot test															
	1300	begin extraction from SOMA-2, SOMA-4, B-8, and B-10															205
	1330	166	56	23	-	25.75	0.17	1.7	23	0	6	54	5,769	4.1	3.5	3,904	
	1430	166	58	23	-	25.75	0.17	1.7	23	0	6	62	6,000	4.0	2.4	3,967	
12/18/2008	1000	system down upon arrival, main timer = 1253.1, approximate shut down at 0800,															
		inspection revealed - magnetic contactor connected to xfer pump short circuited, temporary alternate route created until repair/replacement of contactor															
	1330	restart system														4,461	
	1400	168	62	23		25.75	0.17	1.7	23	0	6	60	10,300	3.0	0.0	4,502	
	1430	168	64	23		25.75	0.19	1.7	24	0	6	64	9,600	3.6	2.0	4,502	
	1530	168	60	23.5		26	0.15	1.4	21	0	5	66	5,375	3.0	1.0	4,522	
		shutdown system to replace magnectic contactor, system remaing off overnigh to allow groundwater to recharge, insufficient water being extracted to allow xfer pump to run															
12/19/2008	900	restart system after inspection of treatment system															
	1000	168	59	24		26.25	0.135	1.6	20	0	5	60	6,300	3.4	1.6	4,620	
	1100	168	59	24		26.25	0.135	1.6	20	0	5	64	4,214	2.8	1.9	4,620	
	1200	168	57	24		26.25	0.135	1.6	20	0	5	66	3,475	2.9	1.7	4,620	
	1300	166	57	24.5		26.5	0.12	1.4	19	0	5	66	3,000	2.5	1.0	4,620	
	1430	166	59	24		26.5	0.13	1.6	20	0	5	70	3,035	0.7	1.1	4,620	
	1500	166	59	23		26.5	0.12	1.5	19	0	5	70	2,730	2	3	4,620	
12/22/2008	900	166	51	24		26	0.15	1.6	21	0	5	62	1,575	0.0	0.0	4,620	
	1100	166	58	22		25	0.28	2	29	0	7	64	1,898	0.0	0.0	4,620	
	1230	166	59	22		25	0.3	2.2	30	0	8	64	2,490	0.0	0.0	4,620	
	1330	166	62	22		25	0.3	2.2	30	0	8	66	2,095	0.0	0	4,620	
	1400	166	60	22		25	0.3	2.2	30	0	8	66	1,941	0.0	0	4,620	
12/23/2008	930	166	57	22		25	0.3	2.2	30	0	8	64	1,714	0.0	0	4,620	227
	1030	166	57	22		25	0.3	2.2	30	0	8	62	2,560	0.0	0.0	4,620	
	1130	166	59	22		25	0.3	2.2	30	0	8	64	1,666	0.0	0	4,620	
	1330	166	59	22		25	0.3	2.2	30	0	8	66	1,805	0.0	0.0	4,620	
12/24/2008	1000	166	59	22		25	0.3	2.2	30	0	8	66	1,844	0.0	0.0	4,620	
	1200	166	59	22		25	0.3	2.2	30	0	8	68	1680	0.0	0.0	4,620	
		shutdown system due to rain and expected rain over weekend															

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Golden Gate Remediation Technology

SITE ADDRESS: 3820 Manila Ave, Oakland, California
PROJECT #: 2514

MTS OPERATIONAL DATA

DATE	TIME	PUMP TEMPERATURE (F)	CONDENSER TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	CASING VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	PITOT TUBE Δ PRESSURE (IN H20)	PUMP OUTLET (Psi)	TOTAL FLOW RATE (SCFM)	DILUTION FLOW RATE (SCFM)	WELL FLOW RATE (SCFM)	EFFLUENT TEMPERATURE (F)	INFLUENT CONCENTRATION (PPMV)	MID EFFLUENT CONCENTRATION (PPMV)	END EFFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER	POWER USAGE (KWH)
12/29/2008	1000	restarted system after initial inspection of system and wells															232
	1100	168	61	22		25	0.3	2.2	30	0	8	58	1,820	0.0	0.0	4,640	
	1300	168	63	22		25	0.3	2.2	30	0	8	66	1,653	0.0	0.0	4,958	
	1400	168	63	22		25	0.32	2.2	31	0	8	70	1,507	0.0	0.0	4,958	
12/30/2008	930	168	56	22		25	0.32	2.2	31	0	8	68	1,775	0.0	0.0	5,414	
	1030	168	61	22		25	0.32	2.2	31	0	8	68	1,815	0.0	0.0	5,414	
	1130	168	61	22		25	0.32	2.2	31	0	8	70	1,623	0.0	0.0	5,414	
	1230	168	61	22		25	0.32	2.2	31	0	8	70	1,596	0.0	0.0	5,414	
	1330	168	61	22		25	0.32	2.2	31	0	8	70	1,470	0.0	0.0	5,414	
12/31/2008	1000	168	53	22		25	0.32	2.2	31	0	8	62	1,645	1.0	0.0	5,577	
	1200	168	58	22		25	0.32	2.2	31	0	8	64	1,835	0.0	0.0	5,577	
	1400	168	60	22		25	0.32	2.2	31	0	8	68	1,644	0.0	0.0	5,632	
	1500	shut down system for holiday and long weekend															
1/5/2009	800	restart system, extraction from only B-10															
	830	168	56	21.75		24.5	0.38	2.3	35	0	9	50	2,400	0.0	0.0	5,632	
	900	168	56	21.25		24.25	0.34	2.5	33	0	8	54	2,395	1.0	1.0	5,632	
	1100	168	56	21		24	0.46	2.5	38	0	9	60	1,070	0.0	0.0	5,632	
		extraction from B-10 and SOMA-2 began and continued overnight															
1/6/2009	1000	168	58	21		24.25	0.48	2.6	38	0	10	66	6,250	5.0	3.0	5,632	
	1200	168	58	21		24.25	0.48	2.6	38	0	10	66	5,290	1.0	0.0	5,632	
		extraction from B-10, SOMA-2, and SOMA-4 began and continued overnight															
	1400	168	64	20		24	0.5	2.6	39	0	10	68	7,345	0.0	0.0	6,374	
1/7/2009	700	168	59	20		24	0.6	2.8	43	0	11	66	7,215	30.0	1.0	6,988	
	730	shut down system for carbon change out of 1000 lb vessel on vapor side															
	930	restart system with extraction from B-10 only															252
	1030	168	58	23.5		25.5	0.3	2.2	30	0	8	60	7,520	2.0	8.0	6,988	
	1130	168	56	23.5		25.5	0.3	2	30	0	8	60	5,675	3.0	3.0	7,045	
		extraction from B-10. B-8, SOMA-4, and SOMA-2															
	1230	168	63	21		24.5	0.4	2.3	35	0	9	62	7,360	1.0	2.0	7,096	
	1430	168	63	20.5		24.5	0.48	2.4	38	0	10	66	8,225	1.0	1.0	7,157	
1/8/2009	1000	168	62	20.5		24	0.52	2.5	40	0	10	70	9,725	0.0	0.0	7,988	
	1200	168	61	21		25	0.42	2.3	36	0	9	70	7,180	0.0	0.0	8,034	
	1400	168	61	21.5		24.5	0.44	2.3	36	0	9	70	6,885	0.0	0.0	8,034	
		extraction from B-8, SOMA-4, SOMA-2															
	1500	168	58	24		26	0.18	1.4	23	0	6	70	5,040	0.0	0.0	8,034	

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Golden Gate Remediation Technology

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MTS OPERATIONAL DATA

DATE	TIME	PUMP TEMPERATURE (F)	CONDENSER TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	CASING VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	PITOT TUBE Δ PRESSURE (IN H20)	PUMP OUTLET (Psi)	TOTAL FLOW RATE (SCFM)	DILUTION FLOW RATE (SCFM)	WELL FLOW RATE (SCFM)	EFFLUENT TEMPERATURE (F)	INFLUENT CONCENTRATION (PPMV)	MID EFFLUENT CONCENTRATION (PPMV)	END EFFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER	POWER USAGE (KWH)
1/9/2009	1200	168	60	24		26.25	0.19	1.4	24	0	6	66	7,500	83.0	0.0	8,260	
	1400	168	63	2.4		26.25	0.19	2.2	24	0	6	70	5,370	100.0	0.0	8,260	
	1500	168	63	22		25	0.4	2.4	35	0	9	70	4,250	142.0	0.0	8,299	
1/12/2009	1030	168	69	22		25	0.4	2.4	34	0	9	78	8,690	400.0	20.0	9,025	
		pause operation to change out 55 gallon polishing vapor drum															
	1300	restart operation w/ only extraction from B-10															
	1400	168	74	22		25	0.36	2.3	33	0	8	80	1,580	100.0	2.0	9,029	
	1500	168	74	22		25	0.36	2.3	33	0	8	82	1,300	101.0	0.0	9,029	
1/13/2009	1030	168	72	22		25	0.36	2.3	33	0	8	82	2,250	310.0	40.0	9,029	
		pause operation to change out 55 gallon polishing vapor drum															
	1130	restart operation w/ only extraction from B-10															
	1230	168	74	23		25.75	0.28	1.8	29	0	7	84	600	44	0	9,029	
	1400	168	75	24		26	0.22	1.7	25	0	6	84	601	56	0	9,029	
1/14/2009	930	system down upon arrival; main timer = 1644.9; approximate shut down at 0930; pressure, temp., or power issues, will observe closely															
	1030	system remains shut down overnight to allow system to reset/cool down															
1/15/2009	730	change out of 1000 lb vessel for vapor and removal of 2 55 gal vapor drums and drop off of 2 new 55 gal vapor drums															
	1030	restart system with extraction from B-10, B-8, SOMA-2, SOMA-4															298
	1100	168	69	23		25.5	0.28	2	29	0	7	64	3,471	0	0	9,029	
	1130	168	73	23	25.50		2		78	0	19	68	2,267	0	0	9,029	
	1230	168	74	23		25.5	0.3	2	30	0	7	74	2,002	0	0	9,029	
1/16/2009	1030	168	66	23		25.5	0.3	2	30	0	7	74	2,911	0	0	9,195	
	1100	system shut down due to pressure, temp., or power issue - under observation															293
	1230	restart system with extraction from B-10, B-8, SOMA-2, SOMA-4															
	1330	168	75	25		27	0.14	2	20	0	5	76	4,550	0	0	9,242	
1/19/2009	1000	system down upon arrival; main timer = 1687.2; approximate shut down at 0500 on 1/17/9; pressure, temp., or power issue under observation															
	1030	restart system with extraction from SOMA-4, B-8															
	1200	168	71	23.5		26	0.18	1.6	23	0	6	68	9,211	0	0	9,514	
	1300	168	73	23.5		26	0.2	1.6	25	0	6	70	10,000	1	0	9,570	
1/20/2009	930	system shut down upon arrival; main timer = 1700; approximate shut down at 2300 1/19/9															
	1000	restart system with extraction from SOMA-4, B-10															
	1100	168	67	23		26	0.2	1.6	25	0	6	68	7,830	0	0	10,019	
	1200	168	71	23		26	0.2	1.6	25	0	6	72	6,946	1	0	10,075	
	1330	168	73	24		27	0.1	1.3	17	0	4	74	7,400	0	0	10,075	
1/21/2009	930	system shut down upon arrival; main timer = 1710; approximate shut down at 2000 1/20/9															
	1100	inspection revealed: pressure sensor damage - internal part, diaphram torn; pressure sensor repaired and system restarted															
	1300	168	64	22		25	0.36	2	33	0	8	72	4,934	0	0	10,299	
1/22/2009	1000	168	59	22		25	0.36	2.2	33	0	8	72	3,775	4	0	10,299	
	1100	166	59	22		25	0.36	2.2	33	0	8	72	3,290	11	0	10,299	
	1200	168	61	22		25	0.4	2.2	35	0	9	72	2,082	16	0	10,299	

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Golden Gate Remediation Technology

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MTS OPERATIONAL DATA

DATE	TIME	PUMP TEMPERATURE (F)	CONDENSER TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	CASING VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	PITOT TUBE Δ PRESSURE (IN H20)	PUMP OUTLET (Psi)	TOTAL FLOW RATE (SCFM)	DILUTION FLOW RATE (SCFM)	WELL FLOW RATE (SCFM)	EFFLUENT TEMPERATURE (F)	INFLUENT CONCENTRATION (PPMV)	MID EFFLUENT CONCENTRATION (PPMV)	END EFFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER	POWER USAGE (KWH)
1/23/2009	1100	166	62	22		25	0.4	2.2	35	0	9	74	808	45	0	10,299	
	1200	166	63	21.5		24.25	0.5	2.5	39	0	10	74	810	46	0	10,299	
1/26/2009	1000	166	55	21.5		24.25	0.5	2.3	39	0	10	64	568	45	0	10,299	
		extraction from B-10, B-8, SOMA-2, and SOMA-4 began															
	1130	166	61	20		24	0.48	2.4	38	0	10	66	8,360	67	0	10,731	
	1230	166	63	20.25		24.25	0.48	2.4	38	0	10	68	9,064	92	2	10,805	
1/27/2009	1000	system down upon arrival; main timer = 1843.4 H @ ~ 2300															
	1030	xfer pum shorted causing wires to burn; repaired and rewired xfer pump; restarted system															
	1130	166	64	20.25		24.25	0.48	2.4	38	0	10	62	13,000	787	0	11,532	
		shutdown system because xfer pump short circuit and overheat causing xfer pump failure; rerouted effluent piping to GAC															
	1200	restart system															
	1300	168	66	20.5		24.5	0.5	2.4	39	0	10	64	11,800	1,555	1	11,565	
		added 2nd 55 gal carbon drum because exceeding air permit discharge conditions															
	1400	168	65	20.5		24.5	0.5	2.4	39	0	10	64	9,500	0	0	11,624	
1/28/2009	1000	168	65	20.5		24.5	0.52	2.6	40	0	10	68	8,669	0	0	12,517	
	1100	168	65	20		24	0.52	2.6	40	0	10	70	7,980	0	0	12,595	
1/29/2009	730	168	64	20		24	0.6	2.8	42	0	11	72	13,444	80	0	13,373	
		carbon change out of 1000 lb vapor vessel															345
	930	restart system															
	1030	168	68	20.5		24.5	0.5	2.4	39	0	10	62	13,600	2	0	13,430	
1/30/2009	930	168	65	20.5		24.5	0.48	2.6	38	0	10	64	15,000	0	0	14,313	
		extraction from SOMA-2 only															
	1030	168	61	25		27	0.1	0.4	17	0	4	66	8,565	3	0	14,342	
2/2/2009	1230	168	67	24.5		27	0.1	1.2	17	0	4	70	15,000	0	0	14,992	
		extraction from SOMA-2, SOMA-4, and B-8															
	1330	168	74	20.5		24.5	0.5	2.4	39	0	10	70	15,000	0	0	15,021	
	1400	168	72	20		24	0.5	2.6	39	0	10	72	15,000	0	0	15,050	
2/3/2009	1500	168	76	20.5		24	0.5	2.6	38	0	10	80	15,000	120	30	15,962	
		extraction from B-10 only															
	1600	168	71	22		24.5	0.5	2.4	38	0	10	80	3,918	0	0	15,962	
2/4/2009	1300	168	65	22		24.5	0.44	2.4	36	0	9	72	775	0	0	15,989	
	1400	168	65	22		24.5	0.44	2.4	36	0	9	72	653	0	0	15,989	
	1500	168	67	22		24.5	0.44	2.4	36	0	9	72	627	0	0	15,989	
2/5/2009	1330	168	65	22		24.5	0.44	2.4	36	0	9	70	795	0	0	15,989	
	1430	168	65	22		24.5	0.44	2.4	36	0	9	70	672	0	0	15,989	
2/6/2009	730	168	61	22		24.5	0.44	2.4	36	0	9	68	1,100	20	0	15,989	
		carbon change out of 1000 lb vapor vessel															388
	930	restart system															
	1000	168	61	21		24	0.4	2.4	35	0	9	58	785	0	0	15,989	
	1030	168	63	21		24	0.42	2.4	36	0	9	62	617	0	0	15,989	

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

Golden Gate Remediation Technology

SITE ADDRESS: 3820 Manila Ave, Oakland, California
PROJECT #: 2514

MTS OPERATIONAL DATA

DATE	TIME	PUMP TEMPERATURE (F)	CONDENSER TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	CASING VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	PITOT TUBE Δ PRESSURE (IN H20)	PUMP OUTLET (Psi)	TOTAL FLOW RATE (SCFM)	DILUTION FLOW RATE (SCFM)	WELL FLOW RATE (SCFM)	EFFLUENT TEMPERATURE (F)	INFLUENT CONCENTRATION (PPMV)	MID EFFLUENT CONCENTRATION (PPMV)	END EFFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER	POWER USAGE (KWH)
2/9/2009	1100	168	55	21.5		24	0.42	2.4	36	0	9	62	572	0	0	15,989	
		shut down system for ground water monitoring															397
2/11/2009	930	restart system with SOMA-2, SOMA-4, B-8, and B-10															
	1000	system shut down, transfer pump failed															
	1130	restart system with extraction from B-10 only, reroute piping to allow discharge of water															
	1230	168	63	21.5		24	0.44	2.4	37	0	9	50	2,000	0	0	15,989	
2/12/2009	930	168	55	21.5		24.5	0.44	2.4	37	0	9	60	429	0	0	15,989	
		closed B-10; extraction from SOMA-2, SOMA-4, and B-8							0	0	0					15,989	
	1030	168	60	22		26	0.22	1.8	26	0	6	62	4,500	0	0	16,213	
2/13/2009	900	168	60	21		24	0.32	2.2	31	0	8	60	7,840	0	0	16,213	
		extraction from B-8 only															
	1100	168	58	22		24	0.4	2.4	35	0	9	60	4,100	0	0	16,213	
2/16/2009	1130	168	60	22		24	0.4	2.4	35	0	9	60	500	2	0	16,213	
		shut down system to install new motor for transfer pump															411
	1230	restart system; extraction from B-8 only															
	1330	168	62	22		24	0.4	2.4	35	0	9	60	1,500	0	0	16,213	
2/17/2009	1000	168	58	22		24	0.4	2.4	35	0	9	60	322	0	0	16,213	
	1100	168	57	22		24	0.4	2.4	35	0	9	60	255	0	0	16,213	
2/18/2009	1000	168	59	22.5		24.5	0.42	2.4	36	0	9	64	240	14	7	16,213	
		extraction from SOMA-2 only															
	1200	168	64	23		25	0.32	2.2	31	0	8	64	1,235	10	0	16,213	
2/19/2009	1000	168	59	24		26	0.34	2.2	32	0	8	66	775	4	0	18,332	
		extraction from SOMA-2, SOMA-4, B-10, and B-8															
	1100	168	65	22.5		25.5	0.26	2	28	0	7	66	1,750	7	0	18,358	
	1200	168	65	22.5		25.5	0.26	2	28	0	7	66	2,082	10	0	18,417	
2/20/2009	1000	168	64	22.5		25.5	0.28	2	29	0	7	66	2,684	40	0	19,272	
	1100	168	65	22.5		25.5	0.26	2	28	0	7	70	3,520	99	10	19,320	
		change out of 55 gal vapor drum for polishing														19,320	
	1200	168	67	22.5		25.5	0.2	2	25	0	6	65	2,330	33	0	19,346	
2/23/2009	1000	168	68	22.5		25.5	0.2	2	25	0	6	70	3,780	101	8	19,346	
		change out of 55 gal vapor drum for polishing; extraction from B-10 only															
	1200	168	64	24		26	0.14	2	21	0	5	64	1,385	101	0	19,346	
2/24/2009	1000	168	60	25		27	0.14	2	21	0	5	70	242	94	0	21,299	
	1100	168	62	25		27	0.12	1.6	19	0	5	70	154	88	0	21,302	
	1200	168	63	25		27	0.12	1.6	19	0	5	70	152	94	0	21,302	
2/25/2009	1000	168	61	25		27	0.1	1.6	17	0	4	64	251	83	0	21,302	
	1100	168	64	25		27	0.1	1.6	17	0	4	64	787	143	0	21,302	
	1200	168	66	25		27	0.1	1.6	17	0	4	66	580	150	0	21,302	

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Golden Gate Remediation Technology

SITE ADDRESS: 3820 Manila Ave, Oakland, California
PROJECT #: 2514

MTS OPERATIONAL DATA

DATE	TIME	PUMP TEMPERATURE (F)	CONDENSER TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	CASING VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	PITOT TUBE Δ PRESSURE (IN H20)	PUMP OUTLET (Psi)	TOTAL FLOW RATE (SCFM)	DILUTION FLOW RATE (SCFM)	WELL FLOW RATE (SCFM)	EFFLUENT TEMPERATURE (F)	INFLUENT CONCENTRATION (PPMV)	MID EFFLUENT CONCENTRATION (PPMV)	END EFFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER	POWER USAGE (KWH)
2/26/2009	730	168	59	25		27	0.12	1.6	19	0	5	70	270	245	0	21,302	
		carbon change out of 1000 lb vapor vessel															476
	930	restart system															
	1030	168	62	24.5		26.5	0.12	1.4	19	0	5	64	835	0	0	21,302	
	1130	168	67	22		25	0.34	2.4	32	0	8	64	1,200	0	0	21,302	
		extraction from SOMA-2, SOMA-4, B-10, and B-8															
2/27/2009	1230	168	62	22		25	0.34	2.4	32	0	8	64	222	0	0	21,387	
	1330	168	63	24.5		27	0.1	1.4	17	0	4	66	760	0	0	21,505	
	1430	168	64	24.5		27	0.1	1.4	17	0	4	68	982	0	0	21,595	
3/2/2009	1030	168	65	23		26	0.14	1.4	21	0	5	68	2,721	32	0	21,595	
	1130	168	62	24		27	0.1	1	17	0	4	68	4,091	100	21	21,595	
	1230	168	61	25		27	0.1	1	18	0	4	60	2,185	180	0	21,595	
3/3/2009	1100	168	60	25		27	0.1	1	17	0	4	62	1,611	6	1	21,595	
	1200	168	60	25		27	0.1	1	17	0	4	62	1,020	2	0	21,595	
3/4/2009	1000	168	61	25		27	0.1	1	18	0	4	60	1,715	1	0	21,595	
	1100	168	62	25		27	0.1	1	18	0	4	60	2,023	1	0	21,595	
	1200	168	62	25		27	0.1	1	18	0	4	60	1,750	40	0	21,595	
3/5/2009	1000	168	60	25		27	0.08	1.4	16	0	4	68	1,120	0	0	21,595	
	1100	168	61	25		27	0.08	1.4	16	0	4	68	790	0	0	21,595	
	1200	168	61	25		27	0.08	1.4	16	0	4	68	784	0	0	21,595	
3/6/2009	1030	168	58	25		27	0.08	1.4	16	0	4	68	1,130	0	0	21,595	
	1130	168	62	25		27	0.08	1.4	16	0	4	66	828	0	0	21,595	
3/9/2009	1100	168	52	25		27	0.08	1.2	16	0	4	66	841	0	0	27,066	
		extraction from SOMA-2 and B-10															
	1200	168	59	24		26.8	0.1	1.8	17	0	4	64	3,754	0	0	27,107	
3/10/2009	1430	168	62	24.5		26.5	0.1	1.6	17	0	4	68	3,595	0	0	27,863	
	1530	168	67	23		26	0.14	1.6	21	0	5	68	5,233	0	0	27,913	
		extraction from SOMA-2, SOMA-4, and B-10															
3/11/2009	1530	168	68	23		26	0.18	1.8	23	0	6	70	5,054	0	0	29,562	
	1630	168	68	23		26	0.2	1.8	25	0	6	70	5,041	0	0	29,602	
3/12/2009	1000	system ok														31,885	
3/13/2009	1100	170	66	23		26	0.2	1.8	25	0	6	68	7,362	0	0	31,885	
		extraction from SOMA-4 only															
	1200	170	66	25		27	0.1	1.2	17	0	4	68	5,644	0	0	31,944	
	1300	168	63	25.5		27.5	0.08	1.2	16	0	4	68	5,260	0	0	31,944	
3/16/2009	1000	168	63	26		27.5	0.04	1.6	11	0	3	62	7,345	0	0	33,184	
		extraction from SOMA-2, SOMA-4, and B-8															
	1100	168	65	25		27	0.08	1.8	16	0	4	62	3,510	0	0	33,179	
	1200	168	66	25		27	0.08	1.4	16	0	4	62	2,970	0	0	33,179	

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Golden Gate Remediation Technology

SITE ADDRESS: 3820 Manila Ave, Oakland, California
PROJECT #: 2514

MTS OPERATIONAL DATA

DATE	TIME	PUMP TEMPERATURE (F)	CONDENSER TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	CASING VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	PITOT TUBE Δ PRESSURE (IN H20)	PUMP OUTLET (Psi)	TOTAL FLOW RATE (SCFM)	DILUTION FLOW RATE (SCFM)	WELL FLOW RATE (SCFM)	EFFLUENT TEMPERATURE (F)	INFLUENT CONCENTRATION (PPMV)	MID EFFLUENT CONCENTRATION (PPMV)	END EFFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER	POWER USAGE (KWH)
3/17/2009	1000	168	65	25		27	0.08	1.4	16	0	4	68	395	0	0	33,298	
		extraction from SOMA-2, SOMA-4, and B-8															
	1100	168	68	24.5		27	0.1	1.6	17	0	4	70	1,586	0	0	33,383	
	1200	168	70	24.5		26.5	0.14	1.6	21	0	5	70	3,216	0	0	33,471	
3/18/2009	1000	system ok							0	0	0					33,471	
3/19/2009	1000	168	69	23		26	0.24	2	27	0	7	76	7,100	30	15	35,947	
		extraction from SOMA-4 only															
	1100	168	69	25		27	0.1	1.2	17	0	4	76	5,070	0	0	35,975	
	1200	168	69	25		27	0.1	1.2	17	0	4	76	5,465	0	0	36,003	
3/20/2009	700	168	62	25		27	0.1	1.2	17	0	4	64	5,344	0	0	36,472	
		carbon change out of 1000 lb vapor vessel															
	930	restart system														36,472	
	1030	168	65	25		27	0.1	1.4	17	0	4	66	15,000	0	0	36,545	
	1130	168	68	25		27	0.1	1. 4	17	0	4	66	9,000	0	0	36,577	
3/23/2009	1000	168	55	25		27	0.1	1.4	17	0	4	64	5,025	2	0	38,962	
	1100	168	61	23		26	0.2	1.8	25	0	6	64	5,783	3	1	39,057	
	1200	168	63	23		26	0.2	1.8	25	0	6	64	5,354	0	0	39,137	

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

APPENDIX E

MPE Event Laboratory Report

Torrent
LABORATORY, INC.

January 20, 2009

Joyce Bobek
Soma Environmnental Engineering, Inc.
6620 Owens Dr. Suite A
Pleasanton, CA 94588

TEL: (925) 734-6400
FAX (925) 734-6401

RE: 2514/3815 Broadway,Oakland

Order No.: 0901027

Dear Joyce Bobek:

Torrent Laboratory, Inc. received 3 samples on 1/9/2009 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.
Reported data is applicable for only the samples received as part of the order number referenced above.

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

Sincerely,

Laboratory Director

1/20/09
Date

TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 1/9/2009
Date Reported: 1/20/2009

Client Sample ID: Effluent-Composite
Sample Location: 3815 Broadway,Oakland
Sample Matrix: SOIL VAPOR
Date/Time Sampled 1/7/2009 7:00:00 AM

Lab Sample ID: 0901027-001
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	1/10/2009	1.99	5	10	ND	µg/m³	R18395
1,1,1,2-Tetrachloroethane	TO-15	1/10/2009	3.44	5	17	ND	µg/m³	R18395
1,1,1-Trichloroethane	TO-15	1/10/2009	2.73	5	14	ND	µg/m³	R18395
1,1,2,2-Tetrachloroethane	TO-15	1/10/2009	3.44	5	17	ND	µg/m³	R18395
1,1,2-Trichloroethane	TO-15	1/10/2009	2.73	5	14	ND	µg/m³	R18395
1,1-Dichloroethane	TO-15	1/10/2009	2.03	5	10	ND	µg/m³	R18395
1,2,4-Trichlorobenzene	TO-15	1/10/2009	3.56	5	18	ND	µg/m³	R18395
1,2,4-Trimethylbenzene	TO-15	1/10/2009	2.46	5	12	ND	µg/m³	R18395
1,2-Dibromoethane(Ethylene dibromide)	TO-15	1/10/2009	3.84	5	19	ND	µg/m³	R18395
1,2-Dichlorobenzene	TO-15	1/10/2009	3.01	5	15	ND	µg/m³	R18395
1,2-Dichloroethane	TO-15	1/10/2009	2.03	5	10	ND	µg/m³	R18395
1,2-Dichloropropane	TO-15	1/10/2009	2.31	5	12	ND	µg/m³	R18395
1,3,5-Trimethylbenzene	TO-15	1/10/2009	2.46	5	12	ND	µg/m³	R18395
1,3-Butadiene	TO-15	1/10/2009	4.44	5	22	ND	µg/m³	R18395
1,3-Dichlorobenzene	TO-15	1/10/2009	3.01	5	15	ND	µg/m³	R18395
1,4-Dichlorobenzene	TO-15	1/10/2009	3.01	5	15	ND	µg/m³	R18395
1,4-Dioxane	TO-15	1/10/2009	1.8	5	9.0	ND	µg/m³	R18395
2-Butanone (MEK)	TO-15	1/10/2009	1.48	5	7.4	ND	µg/m³	R18395
2-Hexanone	TO-15	1/10/2009	2.05	5	10	ND	µg/m³	R18395
4-Ethyl Toluene	TO-15	1/10/2009	2.46	5	12	ND	µg/m³	R18395
4-Methyl-2-Pentanone (MIBK)	TO-15	1/10/2009	2.05	5	10	ND	µg/m³	R18395
Acetone	TO-15	1/10/2009	9.52	5	48	ND	µg/m³	R18395
Benzene	TO-15	1/10/2009	1.6	5	8.0	ND	µg/m³	R18395
Bromodichloromethane	TO-15	1/10/2009	3.35	5	17	ND	µg/m³	R18395
Bromoform	TO-15	1/10/2009	5.17	5	26	ND	µg/m³	R18395
Bromomethane	TO-15	1/10/2009	1.94	5	9.7	ND	µg/m³	R18395
Carbon Disulfide	TO-15	1/10/2009	1.56	5	7.8	ND	µg/m³	R18395
Carbon Tetrachloride	TO-15	1/10/2009	3.15	5	16	ND	µg/m³	R18395
Chlorobenzene	TO-15	1/10/2009	2.3	5	12	ND	µg/m³	R18395
Chloroethane	TO-15	1/10/2009	1.32	5	6.6	ND	µg/m³	R18395
Chloroform	TO-15	1/10/2009	2.44	5	12	ND	µg/m³	R18395
Chloromethane	TO-15	1/10/2009	1.04	5	5.2	ND	µg/m³	R18395
cis-1,2-dichloroethene	TO-15	1/10/2009	1.98	5	9.9	ND	µg/m³	R18395
cis-1,3-Dichloropropene	TO-15	1/10/2009	2.27	5	11	ND	µg/m³	R18395
Dibromochloromethane	TO-15	1/10/2009	4.26	5	21	ND	µg/m³	R18395
Dichlorodifluoromethane	TO-15	1/10/2009	2.48	5	12	ND	µg/m³	R18395

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 1/9/2009
Date Reported: 1/20/2009

Client Sample ID: Effluent-Composite
Sample Location: 3815 Broadway,Oakland
Sample Matrix: SOIL VAPOR
Date/Time Sampled 1/7/2009 7:00:00 AM

Lab Sample ID: 0901027-001
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Diisopropyl ether (DIPE)	TO-15	1/10/2009	2.09	5	10	ND	µg/m³	R18395
Ethyl Acetate	TO-15	1/10/2009	1.8	5	9.0	ND	µg/m³	R18395
Ethyl Benzene	TO-15	1/10/2009	2.17	5	11	ND	µg/m³	R18395
Ethyl tert-butyl ether (ETBE)	TO-15	1/10/2009	2.09	5	10	ND	µg/m³	R18395
Freon 113	TO-15	1/10/2009	3.83	5	19	ND	µg/m³	R18395
Hexachlorobutadiene	TO-15	1/10/2009	5.34	5	27	ND	µg/m³	R18395
Hexane	TO-15	1/10/2009	14.1	5	70	ND	µg/m³	R18395
Isopropanol	TO-15	1/10/2009	16.4	5	82	ND	µg/m³	R18395
m,p-Xylene	TO-15	1/10/2009	2.05	5	10	ND	µg/m³	R18395
Methylene Chloride	TO-15	1/10/2009	3.61	5	18	ND	µg/m³	R18395
MTBE	TO-15	1/10/2009	1.81	5	9.0	63	µg/m³	R18395
Naphthalene	TO-15	1/10/2009	2.62	5	13	ND	µg/m³	R18395
o-xylene	TO-15	1/10/2009	2.17	5	11	ND	µg/m³	R18395
Styrene	TO-15	1/10/2009	2.13	5	11	ND	µg/m³	R18395
t-Butyl alcohol (t-Butanol)	TO-15	1/10/2009	6.06	5	30	ND	µg/m³	R18395
tert-Amyl methyl ether (TAME)	TO-15	1/10/2009	2.09	5	10	ND	µg/m³	R18395
Tetrachloroethene	TO-15	1/10/2009	3.39	5	17	ND	µg/m³	R18395
Toluene	TO-15	1/10/2009	1.89	5	9.4	ND	µg/m³	R18395
trans-1,2-Dichloroethene	TO-15	1/10/2009	1.98	5	9.9	ND	µg/m³	R18395
Trichloroethene	TO-15	1/10/2009	2.69	5	13	ND	µg/m³	R18395
Trichlorofluoromethane	TO-15	1/10/2009	2.48	5	12	ND	µg/m³	R18395
Vinyl Acetate	TO-15	1/10/2009	1.76	5	8.8	ND	µg/m³	R18395
Vinyl Chloride	TO-15	1/10/2009	1.28	5	6.4	ND	µg/m³	R18395
Surr: 4-Bromofluorobenzene	TO-15	1/10/2009	0	5	65-135	99.7	%REC	R18395
Gasoline	TO-3(MOD)	1/9/2009	352	10	3500	ND	µg/m³	G18395
Stoddard Solvent (C7-C12)	TO-3(MOD)	1/9/2009	352	10	3500	ND	µg/m³	G18395

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 1/9/2009
Date Reported: 1/20/2009

Client Sample ID: Midpoint-Composite
Sample Location: 3815 Broadway,Oakland
Sample Matrix: SOIL VAPOR
Date/Time Sampled 1/7/2009 7:10:00 AM

Lab Sample ID: 0901027-002
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	1/10/2009	1.99	5	10	ND	µg/m³	R18395
1,1,1,2-Tetrachloroethane	TO-15	1/10/2009	3.44	5	17	ND	µg/m³	R18395
1,1,1-Trichloroethane	TO-15	1/10/2009	2.73	5	14	ND	µg/m³	R18395
1,1,2,2-Tetrachloroethane	TO-15	1/10/2009	3.44	5	17	ND	µg/m³	R18395
1,1,2-Trichloroethane	TO-15	1/10/2009	2.73	5	14	ND	µg/m³	R18395
1,1-Dichloroethane	TO-15	1/10/2009	2.03	5	10	ND	µg/m³	R18395
1,2,4-Trichlorobenzene	TO-15	1/10/2009	3.56	5	18	ND	µg/m³	R18395
1,2,4-Trimethylbenzene	TO-15	1/10/2009	2.46	5	12	ND	µg/m³	R18395
1,2-Dibromoethane(Ethylene dibromide)	TO-15	1/10/2009	3.84	5	19	ND	µg/m³	R18395
1,2-Dichlorobenzene	TO-15	1/10/2009	3.01	5	15	ND	µg/m³	R18395
1,2-Dichloroethane	TO-15	1/10/2009	2.03	5	10	ND	µg/m³	R18395
1,2-Dichloropropane	TO-15	1/10/2009	2.31	5	12	ND	µg/m³	R18395
1,3,5-Trimethylbenzene	TO-15	1/10/2009	2.46	5	12	ND	µg/m³	R18395
1,3-Butadiene	TO-15	1/10/2009	4.44	5	22	ND	µg/m³	R18395
1,3-Dichlorobenzene	TO-15	1/10/2009	3.01	5	15	ND	µg/m³	R18395
1,4-Dichlorobenzene	TO-15	1/10/2009	3.01	5	15	ND	µg/m³	R18395
1,4-Dioxane	TO-15	1/10/2009	1.8	5	9.0	ND	µg/m³	R18395
2-Butanone (MEK)	TO-15	1/10/2009	1.48	5	7.4	ND	µg/m³	R18395
2-Hexanone	TO-15	1/10/2009	2.05	5	10	ND	µg/m³	R18395
4-Ethyl Toluene	TO-15	1/10/2009	2.46	5	12	ND	µg/m³	R18395
4-Methyl-2-Pentanone (MIBK)	TO-15	1/10/2009	2.05	5	10	ND	µg/m³	R18395
Acetone	TO-15	1/10/2009	9.52	5	48	ND	µg/m³	R18395
Benzene	TO-15	1/10/2009	1.6	5	8.0	ND	µg/m³	R18395
Bromodichloromethane	TO-15	1/10/2009	3.35	5	17	ND	µg/m³	R18395
Bromoform	TO-15	1/10/2009	5.17	5	26	ND	µg/m³	R18395
Bromomethane	TO-15	1/10/2009	1.94	5	9.7	ND	µg/m³	R18395
Carbon Disulfide	TO-15	1/10/2009	1.56	5	7.8	ND	µg/m³	R18395
Carbon Tetrachloride	TO-15	1/10/2009	3.15	5	16	ND	µg/m³	R18395
Chlorobenzene	TO-15	1/10/2009	2.3	5	12	ND	µg/m³	R18395
Chloroethane	TO-15	1/10/2009	1.32	5	6.6	ND	µg/m³	R18395
Chloroform	TO-15	1/10/2009	2.44	5	12	ND	µg/m³	R18395
Chloromethane	TO-15	1/10/2009	1.04	5	5.2	ND	µg/m³	R18395
cis-1,2-dichloroethene	TO-15	1/10/2009	1.98	5	9.9	1400	µg/m³	R18395
cis-1,3-Dichloropropene	TO-15	1/10/2009	2.27	5	11	ND	µg/m³	R18395
Dibromochloromethane	TO-15	1/10/2009	4.26	5	21	ND	µg/m³	R18395
Dichlorodifluoromethane	TO-15	1/10/2009	2.48	5	12	ND	µg/m³	R18395
Diisopropyl ether (DIPE)	TO-15	1/10/2009	2.09	5	10	ND	µg/m³	R18395
Ethyl Acetate	TO-15	1/10/2009	1.8	5	9.0	ND	µg/m³	R18395
Ethyl Benzene	TO-15	1/10/2009	2.17	5	11	ND	µg/m³	R18395
Ethyl tert-butyl ether (ETBE)	TO-15	1/10/2009	2.09	5	10	ND	µg/m³	R18395
Freon 113	TO-15	1/10/2009	3.83	5	19	36	µg/m³	R18395
Hexachlorobutadiene	TO-15	1/10/2009	5.34	5	27	ND	µg/m³	R18395
Hexane	TO-15	1/10/2009	14.1	5	70	ND	µg/m³	R18395

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 1/9/2009
Date Reported: 1/20/2009

Client Sample ID: Midpoint-Composite
Sample Location: 3815 Broadway,Oakland
Sample Matrix: SOIL VAPOR
Date/Time Sampled 1/7/2009 7:10:00 AM

Lab Sample ID: 0901027-002
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Isopropanol	TO-15	1/10/2009	16.4	5	82	ND	µg/m³	R18395
m,p-Xylene	TO-15	1/10/2009	2.05	5	10	ND	µg/m³	R18395
Methylene Chloride	TO-15	1/10/2009	3.61	5	18	ND	µg/m³	R18395
MTBE	TO-15	1/10/2009	1.81	5	9.0	26	µg/m³	R18395
Naphthalene	TO-15	1/10/2009	2.62	5	13	ND	µg/m³	R18395
o-xylene	TO-15	1/10/2009	2.17	5	11	ND	µg/m³	R18395
Styrene	TO-15	1/10/2009	2.13	5	11	ND	µg/m³	R18395
t-Butyl alcohol (t-Butanol)	TO-15	1/10/2009	6.06	5	30	ND	µg/m³	R18395
tert-Amyl methyl ether (TAME)	TO-15	1/10/2009	2.09	5	10	ND	µg/m³	R18395
Tetrachloroethene	TO-15	1/10/2009	3.39	5	17	ND	µg/m³	R18395
Toluene	TO-15	1/10/2009	1.89	5	9.4	ND	µg/m³	R18395
trans-1,2-Dichloroethene	TO-15	1/10/2009	1.98	5	9.9	ND	µg/m³	R18395
Trichloroethene	TO-15	1/10/2009	2.69	5	13	ND	µg/m³	R18395
Trichlorofluoromethane	TO-15	1/10/2009	2.48	5	12	ND	µg/m³	R18395
Vinyl Acetate	TO-15	1/10/2009	1.76	5	8.8	ND	µg/m³	R18395
Vinyl Chloride	TO-15	1/10/2009	1.28	5	6.4	ND	µg/m³	R18395
Surr: 4-Bromofluorobenzene	TO-15	1/10/2009	0	5	65-135	102	%REC	R18395
Gasoline	TO-3(MOD)	1/9/2009	352	10	3500	ND	µg/m³	G18395
Stoddard Solvent (C7-C12)	TO-3(MOD)	1/9/2009	352	10	3500	18000	µg/m³	G18395

Note: Result reported as a Stoddard Solvent as hydrocarbons responded within Stoddard Solvent range and pattern best matches Stoddard Solvent.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 1/9/2009
Date Reported: 1/20/2009

Client Sample ID: Influent-Composite
Sample Location: 3815 Broadway,Oakland
Sample Matrix: SOIL VAPOR
Date/Time Sampled 1/7/2009 7:20:00 AM

Lab Sample ID: 0901027-003
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	1/12/2009	1.99	1000	2000	ND	µg/m³	S18395
1,1,1,2-Tetrachloroethane	TO-15	1/12/2009	3.44	1000	3400	ND	µg/m³	S18395
1,1,1-Trichloroethane	TO-15	1/12/2009	2.73	1000	2700	ND	µg/m³	S18395
1,1,2,2-Tetrachloroethane	TO-15	1/12/2009	3.44	1000	3400	ND	µg/m³	S18395
1,1,2-Trichloroethane	TO-15	1/12/2009	2.73	1000	2700	ND	µg/m³	S18395
1,1-Dichloroethane	TO-15	1/12/2009	2.03	1000	2000	ND	µg/m³	S18395
1,2,4-Trichlorobenzene	TO-15	1/12/2009	3.56	1000	3600	ND	µg/m³	S18395
1,2,4-Trimethylbenzene	TO-15	1/12/2009	2.46	1000	2500	ND	µg/m³	S18395
1,2-Dibromoethane(Ethylene dibromide)	TO-15	1/12/2009	3.84	1000	3800	ND	µg/m³	S18395
1,2-Dichlorobenzene	TO-15	1/12/2009	3.01	1000	3000	ND	µg/m³	S18395
1,2-Dichloroethane	TO-15	1/12/2009	2.03	1000	2000	ND	µg/m³	S18395
1,2-Dichloropropane	TO-15	1/12/2009	2.31	1000	2300	ND	µg/m³	S18395
1,3,5-Trimethylbenzene	TO-15	1/12/2009	2.46	1000	2500	ND	µg/m³	S18395
1,3-Butadiene	TO-15	1/12/2009	4.44	1000	4400	ND	µg/m³	S18395
1,3-Dichlorobenzene	TO-15	1/12/2009	3.01	1000	3000	ND	µg/m³	S18395
1,4-Dichlorobenzene	TO-15	1/12/2009	3.01	1000	3000	ND	µg/m³	S18395
1,4-Dioxane	TO-15	1/12/2009	1.8	1000	1800	ND	µg/m³	S18395
2-Butanone (MEK)	TO-15	1/12/2009	1.48	1000	1500	ND	µg/m³	S18395
2-Hexanone	TO-15	1/12/2009	2.05	1000	2000	ND	µg/m³	S18395
4-Ethyl Toluene	TO-15	1/12/2009	2.46	1000	2500	ND	µg/m³	S18395
4-Methyl-2-Pentanone (MIBK)	TO-15	1/12/2009	2.05	1000	2000	ND	µg/m³	S18395
Acetone	TO-15	1/12/2009	9.52	1000	9500	ND	µg/m³	S18395
Benzene	TO-15	1/12/2009	1.6	1000	1600	ND	µg/m³	S18395
Bromodichloromethane	TO-15	1/12/2009	3.35	1000	3400	ND	µg/m³	S18395
Bromoform	TO-15	1/12/2009	5.17	1000	5200	ND	µg/m³	S18395
Bromomethane	TO-15	1/12/2009	1.94	1000	1900	ND	µg/m³	S18395
Carbon Disulfide	TO-15	1/12/2009	1.56	1000	1600	ND	µg/m³	S18395
Carbon Tetrachloride	TO-15	1/12/2009	3.15	1000	3200	ND	µg/m³	S18395
Chlorobenzene	TO-15	1/12/2009	2.3	1000	2300	ND	µg/m³	S18395
Chloroethane	TO-15	1/12/2009	1.32	1000	1300	ND	µg/m³	S18395
Chloroform	TO-15	1/12/2009	2.44	1000	2400	ND	µg/m³	S18395
Chloromethane	TO-15	1/12/2009	1.04	1000	1000	ND	µg/m³	S18395
cis-1,2-dichloroethene	TO-15	1/12/2009	1.98	1000	2000	7500	µg/m³	S18395
cis-1,3-Dichloropropene	TO-15	1/12/2009	2.27	1000	2300	ND	µg/m³	S18395
Dibromochloromethane	TO-15	1/12/2009	4.26	1000	4300	ND	µg/m³	S18395
Dichlorodifluoromethane	TO-15	1/12/2009	2.48	1000	2500	ND	µg/m³	S18395
Diisopropyl ether (DIPE)	TO-15	1/12/2009	2.09	1000	2100	ND	µg/m³	S18395
Ethyl Acetate	TO-15	1/12/2009	1.8	1000	1800	ND	µg/m³	S18395
Ethyl Benzene	TO-15	1/12/2009	2.17	1000	2200	ND	µg/m³	S18395
Ethyl tert-butyl ether (ETBE)	TO-15	1/12/2009	2.09	1000	2100	ND	µg/m³	S18395
Freon 113	TO-15	1/12/2009	3.83	1000	3800	ND	µg/m³	S18395
Hexachlorobutadiene	TO-15	1/12/2009	5.34	1000	5300	ND	µg/m³	S18395
Hexane	TO-15	1/12/2009	14.1	1000	14000	ND	µg/m³	S18395

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 1/9/2009
Date Reported: 1/20/2009

Client Sample ID: Influent-Composite
Sample Location: 3815 Broadway,Oakland
Sample Matrix: SOIL VAPOR
Date/Time Sampled 1/7/2009 7:20:00 AM

Lab Sample ID: 0901027-003
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Isopropanol	TO-15	1/12/2009	16.4	1000	16000	ND	µg/m³	S18395
m,p-Xylene	TO-15	1/12/2009	2.05	1000	2000	ND	µg/m³	S18395
Methylene Chloride	TO-15	1/12/2009	3.61	1000	3600	ND	µg/m³	S18395
MTBE	TO-15	1/12/2009	1.81	1000	1800	5400	µg/m³	S18395
Naphthalene	TO-15	1/12/2009	2.62	1000	2600	ND	µg/m³	S18395
o-xylene	TO-15	1/12/2009	2.17	1000	2200	ND	µg/m³	S18395
Styrene	TO-15	1/12/2009	2.13	1000	2100	ND	µg/m³	S18395
t-Butyl alcohol (t-Butanol)	TO-15	1/12/2009	6.06	1000	6100	ND	µg/m³	S18395
tert-Amyl methyl ether (TAME)	TO-15	1/12/2009	2.09	1000	2100	ND	µg/m³	S18395
Tetrachloroethene	TO-15	1/12/2009	3.39	1000	3400	ND	µg/m³	S18395
Toluene	TO-15	1/12/2009	1.89	1000	1900	ND	µg/m³	S18395
trans-1,2-Dichloroethene	TO-15	1/12/2009	1.98	1000	2000	ND	µg/m³	S18395
Trichloroethene	TO-15	1/12/2009	2.69	1000	2700	ND	µg/m³	S18395
Trichlorofluoromethane	TO-15	1/12/2009	2.48	1000	2500	ND	µg/m³	S18395
Vinyl Acetate	TO-15	1/12/2009	1.76	1000	1800	ND	µg/m³	S18395
Vinyl Chloride	TO-15	1/12/2009	1.28	1000	1300	ND	µg/m³	S18395
Surr: 4-Bromofluorobenzene	TO-15	1/12/2009	0	1000	65-135	89.0	%REC	S18395
Gasoline	TO-3(MOD)	1/9/2009	352	500	180000	ND	µg/m³	G18395
Stoddard Solvent (C7-C12)	TO-3(MOD)	1/9/2009	352	500	180000	3800000	µg/m³	G18395

Note: Result reported as a Stoddard Solvent as hydrocarbons responded within Stoddard Solvent range and pattern best matches Stoddard Solvent.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: G18395

Sample ID	**MB-G-G18395**	SampType:	**MBLK**	TestCode:	**TO-3Gas (MO**	Units:	**ppbv**	Prep Date:	**1/9/2009**	RunNo:	**18395**
Client ID:	**ZZZZZ**	Batch ID:	**G18395**	TestNo:	**TO-3(MOD)**			Analysis Date:	**1/9/2009**	SeqNo:	**264700**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	100									

Sample ID	**LCSG-G18395**	SampType:	**LCS**	TestCode:	**TO-3Gas (MO**	Units:	**ppbv**	Prep Date:	**1/9/2009**	RunNo:	**18395**
Client ID:	**ZZZZZ**	Batch ID:	**G18395**	TestNo:	**TO-3(MOD)**			Analysis Date:	**1/9/2009**	SeqNo:	**264701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	528.9	100	500	0	106	50	150				

Sample ID	**LCSDG-G18395**	SampType:	**LCSD**	TestCode:	**TO-3Gas (MO**	Units:	**ppbv**	Prep Date:	**1/9/2009**	RunNo:	**18395**
Client ID:	**ZZZZZ**	Batch ID:	**G18395**	TestNo:	**TO-3(MOD)**			Analysis Date:	**1/9/2009**	SeqNo:	**264702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	467.6	100	500	0	93.5	50	150	528.9	12.3	30	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R18395

Sample ID **MB-R18395**	SampType: **MBLK**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **1/10/2009**	RunNo: **18395**				
Client ID: **ZZZZZ**	Batch ID: **R18395**	TestNo: **TO-15**		Analysis Date: **1/10/2009**	SeqNo: **264672**				

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	ND	0.50									
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromoethane(Ethylene dibromide	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Butadiene	ND	2.0									
1,3-Dichlorobenzene	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
1,4-Dioxane	ND	0.50									
2-Butanone (MEK)	ND	0.50									
2-Hexanone	ND	0.50									
4-Ethyl Toluene	ND	0.50									
4-Methyl-2-Pentanone (MIBK)	ND	0.50									
Acetone	ND	4.0									
Benzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon Disulfide	ND	0.50									
Carbon Tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R18395

Sample ID **MB-R18395** SampType: **MBLK** TestCode: **TO-15** Units: **ppbv** Prep Date: **1/10/2009** RunNo: **18395**
Client ID: **ZZZZZ** Batch ID: **R18395** TestNo: **TO-15** Analysis Date: **1/10/2009** SeqNo: **264672**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	ND	0.50									
cis-1,2-dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Diisopropyl ether (DIPE)	ND	0.50									
Ethyl Acetate	ND	0.50									
Ethyl Benzene	ND	0.50									
Ethyl tert-butyl ether (ETBE)	ND	0.50									
Freon 113	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Hexane	ND	2.0									
Isopropanol	ND	4.0									
m,p-Xylene	ND	0.50									
Methylene Chloride	ND	1.0									
MTBE	ND	0.50									
Naphthalene	ND	0.50									
o-xylene	ND	0.50									
Styrene	ND	0.50									
t-Butyl alcohol (t-Butanol)	ND	2.0									
tert-Amyl methyl ether (TAME)	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl Acetate	ND	0.50									
Vinyl Chloride	ND	0.50									
Surr: 4-Bromofluorobenzene	18.87	0	20	0	94.4	65	135				

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R18395

Sample ID **LCS-R18395** SampType: **LCS** TestCode: **TO-15** Units: **ppbv** Prep Date: **1/10/2009** RunNo: **18395**
Client ID: **ZZZZZ** Batch ID: **R18395** TestNo: **TO-15** Analysis Date: **1/10/2009** SeqNo: **264673**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	19.45	0.50	20	0	97.3	65	135				
1,1,1,2-Tetrachloroethane	18.27	0.50	20	0	91.4	65	135				
1,1,1-Trichloroethane	19.80	0.50	20	0	99.0	65	135				
1,1,2,2-Tetrachloroethane	19.00	0.50	20	0	95.0	65	135				
1,1,2-Trichloroethane	18.69	0.50	20	0	93.4	65	135				
1,1-Dichloroethane	20.74	0.50	20	0	104	65	135				
1,2,4-Trichlorobenzene	16.27	0.50	20	0	81.4	65	135				
1,2,4-Trimethylbenzene	18.71	0.50	20	0	93.6	65	135				
1,2-Dibromoethane(Ethylene dibromide	18.13	0.50	20	0	90.7	65	135				
1,2-Dichlorobenzene	19.08	0.50	20	0	95.4	65	135				
1,2-Dichloroethane	18.79	0.50	20	0	94.0	65	135				
1,2-Dichloropropane	21.40	0.50	20	0	107	65	135				
1,3,5-Trimethylbenzene	19.40	0.50	20	0	97.0	65	135				
1,3-Butadiene	18.72	2.0	20	0	93.6	65	135				
1,3-Dichlorobenzene	17.08	0.50	20	0	85.4	65	135				
1,4-Dichlorobenzene	18.17	0.50	20	0	90.8	65	135				
1,4-Dioxane	16.60	0.50	20	0	83.0	65	135				
2-Butanone (MEK)	19.19	0.50	20	0	96.0	65	135				
2-Hexanone	15.45	0.50	20	0	77.2	65	135				
4-Ethyl Toluene	16.24	0.50	20	0	81.2	65	135				
4-Methyl-2-Pentanone (MIBK)	17.13	0.50	20	0	85.7	65	135				
Acetone	22.72	4.0	20	0	114	65	135				
Benzene	21.16	0.50	20	0	106	65	135				
Bromodichloromethane	19.11	0.50	20	0	95.6	65	135				
Bromoform	16.73	0.50	20	0	83.6	65	135				
Bromomethane	18.56	0.50	20	0	92.8	65	135				
Carbon Disulfide	18.95	0.50	20	0	94.8	65	135				
Carbon Tetrachloride	18.94	0.50	20	0	94.7	65	135				
Chlorobenzene	21.12	0.50	20	0	106	65	135				
Chloroethane	18.07	0.50	20	0	90.4	65	135				
Chloroform	19.83	0.50	20	0	99.2	65	135				

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R18395

Sample ID **LCS-R18395** SampType: **LCS** TestCode: **TO-15** Units: **ppbv** Prep Date: **1/10/2009** RunNo: **18395**
Client ID: **ZZZZZ** Batch ID: **R18395** TestNo: **TO-15** Analysis Date: **1/10/2009** SeqNo: **264673**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	18.67	0.50	20	0	93.4	65	135				
cis-1,2-dichloroethene	20.34	0.50	20	0	102	65	135				
cis-1,3-Dichloropropene	19.87	0.50	20	0	99.4	65	135				
Dibromochloromethane	17.35	0.50	20	0	86.8	65	135				
Diisopropyl ether (DIPE)	19.05	0.50	20	0	95.2	65	135				
Ethyl Acetate	18.58	0.50	20	0	92.9	65	135				
Ethyl Benzene	19.74	0.50	20	0	98.7	65	135				
Ethyl tert-butyl ether (ETBE)	18.03	0.50	20	0	90.2	65	135				
Freon 113	18.31	0.50	20	0	91.6	65	135				
Hexachlorobutadiene	15.71	0.50	20	0	78.6	65	135				
Hexane	19.36	2.0	20	0	96.8	65	135				
Isopropanol	19.41	4.0	20	0	97.0	65	135				
m,p-Xylene	38.49	0.50	40	0	96.2	65	135				
Methylene Chloride	19.57	1.0	20	0	97.8	65	135				
MTBE	17.20	0.50	20	0	86.0	65	135				
Naphthalene	16.44	0.50	20	0	82.2	65	135				
o-xylene	19.05	0.50	20	0	95.2	65	135				
Styrene	18.68	0.50	20	0	93.4	65	135				
t-Butyl alcohol (t-Butanol)	15.34	2.0	20	0	76.7	65	135				
tert-Amyl methyl ether (TAME)	14.65	0.50	20	0	73.2	65	135				
Tetrachloroethene	18.23	0.50	20	0	91.2	65	135				
Toluene	19.30	0.50	20	0	96.5	65	135				
trans-1,2-Dichloroethene	20.44	0.50	20	0	102	65	135				
Trichloroethene	19.71	0.50	20	0	98.6	65	135				
Trichlorofluoromethane	20.45	0.50	20	0	102	65	135				
Vinyl Acetate	21.11	0.50	20	0	106	65	135				
Vinyl Chloride	19.14	0.50	20	0	95.7	65	135				
Surr: 4-Bromofluorobenzene	19.31	0	20	0	96.6	65	135				

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R18395

Sample ID **LCSD-R18395**	SampType: **LCSD**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **1/10/2009**	RunNo: **18395**
Client ID: **ZZZZZ**	Batch ID: **R18395**	TestNo: **TO-15**		Analysis Date: **1/10/2009**	SeqNo: **264676**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	18.38	0.50	20	0	91.9	65	135	19.45	5.66	30	
1,1,1,2-Tetrachloroethane	18.62	0.50	20	0	93.1	65	135	18.27	1.90	30	
1,1,1-Trichloroethane	19.09	0.50	20	0	95.4	65	135	19.8	3.65	30	
1,1,2,2-Tetrachloroethane	19.41	0.50	20	0	97.0	65	135	19	2.13	30	
1,1,2-Trichloroethane	19.40	0.50	20	0	97.0	65	135	18.69	3.73	30	
1,1-Dichloroethane	21.08	0.50	20	0	105	65	135	20.74	1.63	30	
1,2,4-Trichlorobenzene	16.49	0.50	20	0	82.5	65	135	16.27	1.34	30	
1,2,4-Trimethylbenzene	19.12	0.50	20	0	95.6	65	135	18.71	2.17	30	
1,2-Dibromoethane(Ethylene dibromide	18.82	0.50	20	0	94.1	65	135	18.13	3.73	30	
1,2-Dichlorobenzene	19.41	0.50	20	0	97.0	65	135	19.08	1.71	30	
1,2-Dichloroethane	15.43	0.50	20	0	77.2	65	135	18.79	19.6	30	
1,2-Dichloropropane	21.26	0.50	20	0	106	65	135	21.4	0.656	30	
1,3,5-Trimethylbenzene	19.55	0.50	20	0	97.8	65	135	19.4	0.770	30	
1,3-Butadiene	21.00	2.0	20	0	105	65	135	18.72	11.5	30	
1,3-Dichlorobenzene	19.03	0.50	20	0	95.2	65	135	17.08	10.8	30	
1,4-Dichlorobenzene	18.66	0.50	20	0	93.3	65	135	18.17	2.66	30	
1,4-Dioxane	15.50	0.50	20	0	77.5	65	135	16.6	6.85	30	
2-Butanone (MEK)	19.26	0.50	20	0	96.3	65	135	19.19	0.364	30	
2-Hexanone	15.37	0.50	20	0	76.8	65	135	15.45	0.519	30	
4-Ethyl Toluene	16.38	0.50	20	0	81.9	65	135	16.24	0.858	30	
4-Methyl-2-Pentanone (MIBK)	16.71	0.50	20	0	83.6	65	135	17.13	2.48	30	
Acetone	23.65	4.0	20	0	118	65	135	22.72	4.01	30	
Benzene	21.51	0.50	20	0	108	65	135	21.16	1.64	30	
Bromodichloromethane	18.35	0.50	20	0	91.8	65	135	19.11	4.06	30	
Bromoform	17.09	0.50	20	0	85.4	65	135	16.73	2.13	30	
Bromomethane	19.72	0.50	20	0	98.6	65	135	18.56	6.06	30	
Carbon Disulfide	19.80	0.50	20	0	99.0	65	135	18.95	4.39	30	
Carbon Tetrachloride	18.89	0.50	20	0	94.4	65	135	18.94	0.264	30	
Chlorobenzene	21.65	0.50	20	0	108	65	135	21.12	2.48	30	
Chloroethane	18.66	0.50	20	0	93.3	65	135	18.07	3.21	30	
Chloroform	20.25	0.50	20	0	101	65	135	19.83	2.10	30	

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R18395

Sample ID **LCSD-R18395**	SampType: **LCSD**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **1/10/2009**	RunNo: **18395**
Client ID: **ZZZZZ**	Batch ID: **R18395**	TestNo: **TO-15**		Analysis Date: **1/10/2009**	SeqNo: **264676**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	18.78	0.50	20	0	93.9	65	135	18.67	0.587	30	
cis-1,2-dichloroethene	20.97	0.50	20	0	105	65	135	20.34	3.05	30	
cis-1,3-Dichloropropene	18.86	0.50	20	0	94.3	65	135	19.87	5.22	30	
Dibromochloromethane	18.01	0.50	20	0	90.0	65	135	17.35	3.73	30	
Diisopropyl ether (DIPE)	19.20	0.50	20	0	96.0	65	135	19.05	0.784	30	
Ethyl Acetate	18.38	0.50	20	0	91.9	65	135	18.58	1.08	30	
Ethyl Benzene	19.93	0.50	20	0	99.7	65	135	19.74	0.958	30	
Ethyl tert-butyl ether (ETBE)	19.00	0.50	20	0	95.0	65	135	18.03	5.24	30	
Freon 113	19.09	0.50	20	0	95.4	65	135	18.31	4.17	30	
Hexachlorobutadiene	15.66	0.50	20	0	78.3	65	135	15.71	0.319	30	
Hexane	19.70	2.0	20	0	98.5	65	135	19.36	1.74	30	
Isopropanol	18.96	4.0	20	0	94.8	65	135	19.41	2.35	30	
m,p-Xylene	39.58	0.50	40	0	99.0	65	135	38.49	2.79	30	
Methylene Chloride	20.23	1.0	20	0	101	65	135	19.57	3.32	30	
MTBE	17.80	0.50	20	0	89.0	65	135	17.2	3.43	30	
Naphthalene	16.72	0.50	20	0	83.6	65	135	16.44	1.69	30	
o-xylene	19.56	0.50	20	0	97.8	65	135	19.05	2.64	30	
Styrene	18.61	0.50	20	0	93.0	65	135	18.68	0.375	30	
t-Butyl alcohol (t-Butanol)	16.15	2.0	20	0	80.8	65	135	15.34	5.14	30	
tert-Amyl methyl ether (TAME)	15.00	0.50	20	0	75.0	65	135	14.65	2.36	30	
Tetrachloroethene	19.25	0.50	20	0	96.2	65	135	18.23	5.44	30	
Toluene	18.27	0.50	20	0	91.4	65	135	19.3	5.48	30	
trans-1,2-Dichloroethene	20.07	0.50	20	0	100	65	135	20.44	1.83	30	
Trichloroethene	19.26	0.50	20	0	96.3	65	135	19.71	2.31	30	
Trichlorofluoromethane	21.04	0.50	20	0	105	65	135	20.45	2.84	30	
Vinyl Acetate	20.71	0.50	20	0	104	65	135	21.11	1.91	30	
Vinyl Chloride	22.09	0.50	20	0	110	65	135	19.14	14.3	30	
Surr: 4-Bromofluorobenzene	19.79	0	20	0	99.0	65	135	0	0	30	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: S18395

Sample ID **MB-S18395**	SampType: **MBLK**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **1/12/2009**	RunNo: **18395**
Client ID: **ZZZZZ**	Batch ID: **S18395**	TestNo: **TO-15**		Analysis Date: **1/12/2009**	SeqNo: **264943**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	ND	0.50									
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromoethane(Ethylene dibromide	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Butadiene	ND	2.0									
1,3-Dichlorobenzene	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
1,4-Dioxane	ND	0.50									
2-Butanone (MEK)	ND	0.50									
2-Hexanone	ND	0.50									
4-Ethyl Toluene	ND	0.50									
4-Methyl-2-Pentanone (MIBK)	ND	0.50									
Acetone	ND	4.0									
Benzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon Disulfide	ND	0.50									
Carbon Tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: S18395

Sample ID **MB-S18395**	SampType: **MBLK**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **1/12/2009**	RunNo: **18395**
Client ID: **ZZZZZ**	Batch ID: **S18395**	TestNo: **TO-15**		Analysis Date: **1/12/2009**	SeqNo: **264943**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	ND	0.50									
cis-1,2-dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Diisopropyl ether (DIPE)	ND	0.50									
Ethyl Acetate	ND	0.50									
Ethyl Benzene	ND	0.50									
Ethyl tert-butyl ether (ETBE)	ND	0.50									
Freon 113	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Hexane	ND	2.0									
Isopropanol	ND	4.0									
m,p-Xylene	ND	0.50									
Methylene Chloride	ND	1.0									
MTBE	ND	0.50									
Naphthalene	ND	0.50									
o-xylene	ND	0.50									
Styrene	ND	0.50									
t-Butyl alcohol (t-Butanol)	ND	2.0									
tert-Amyl methyl ether (TAME)	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl Acetate	ND	0.50									
Vinyl Chloride	ND	0.50									
Surr: 4-Bromofluorobenzene	18.56	0	20	0	92.8	65	135				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: S18395

Sample ID **LCS-S18395**	SampType: **LCS**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **1/12/2009**	RunNo: **18395**
Client ID: **ZZZZZ**	Batch ID: **S18395**	TestNo: **TO-15**		Analysis Date: **1/12/2009**	SeqNo: **264944**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	22.52	0.50	20	0	113	65	135				
1,1,1,2-Tetrachloroethane	16.92	0.50	20	0	84.6	65	135				
1,1,1-Trichloroethane	20.98	0.50	20	0	105	65	135				
1,1,2,2-Tetrachloroethane	18.38	0.50	20	0	91.9	65	135				
1,1,2-Trichloroethane	18.72	0.50	20	0	93.6	65	135				
1,1-Dichloroethane	22.52	0.50	20	0	113	65	135				
1,2,4-Trichlorobenzene	15.29	0.50	20	0	76.5	65	135				
1,2,4-Trimethylbenzene	17.53	0.50	20	0	87.6	65	135				
1,2-Dibromoethane(Ethylene dibromide	18.39	0.50	20	0	92.0	65	135				
1,2-Dichlorobenzene	18.36	0.50	20	0	91.8	65	135				
1,2-Dichloroethane	17.52	0.50	20	0	87.6	65	135				
1,2-Dichloropropane	20.13	0.50	20	0	101	65	135				
1,3,5-Trimethylbenzene	18.16	0.50	20	0	90.8	65	135				
1,3-Butadiene	21.01	2.0	20	0	105	65	135				
1,3-Dichlorobenzene	18.38	0.50	20	0	91.9	65	135				
1,4-Dichlorobenzene	18.90	0.50	20	0	94.5	65	135				
1,4-Dioxane	15.43	0.50	20	0	77.2	65	135				
2-Butanone (MEK)	16.68	0.50	20	0	83.4	65	135				
2-Hexanone	14.50	0.50	20	0	72.5	65	135				
4-Ethyl Toluene	17.26	0.50	20	0	86.3	65	135				
4-Methyl-2-Pentanone (MIBK)	15.75	0.50	20	0	78.8	65	135				
Acetone	22.91	4.0	20	0	115	65	135				
Benzene	22.20	0.50	20	0	111	65	135				
Bromodichloromethane	18.30	0.50	20	0	91.5	65	135				
Bromoform	15.78	0.50	20	0	78.9	65	135				
Bromomethane	23.08	0.50	20	0	115	65	135				
Carbon Disulfide	22.68	0.50	20	0	113	65	135				
Carbon Tetrachloride	20.63	0.50	20	0	103	65	135				
Chlorobenzene	20.85	0.50	20	0	104	65	135				
Chloroethane	21.23	0.50	20	0	106	65	135				
Chloroform	21.68	0.50	20	0	108	65	135				

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: S18395

Sample ID **LCS-S18395** SampType: **LCS** TestCode: **TO-15** Units: **ppbv** Prep Date: **1/12/2009** RunNo: **18395**
Client ID: **ZZZZZ** Batch ID: **S18395** TestNo: **TO-15** Analysis Date: **1/12/2009** SeqNo: **264944**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	22.11	0.50	20	0	111	65	135				
cis-1,2-dichloroethene	21.88	0.50	20	0	109	65	135				
cis-1,3-Dichloropropene	17.89	0.50	20	0	89.4	65	135				
Dibromochloromethane	18.39	0.50	20	0	92.0	65	135				
Diisopropyl ether (DIPE)	18.60	0.50	20	0	93.0	65	135				
Ethyl Acetate	17.73	0.50	20	0	88.6	65	135				
Ethyl Benzene	19.05	0.50	20	0	95.2	65	135				
Ethyl tert-butyl ether (ETBE)	21.24	0.50	20	0	106	65	135				
Freon 113	20.41	0.50	20	0	102	65	135				
Hexachlorobutadiene	14.05	0.50	20	0	70.2	65	135				
Hexane	20.86	2.0	20	0	104	65	135				
Isopropanol	18.45	4.0	20	0	92.2	65	135				
m,p-Xylene	37.95	0.50	40	0	94.9	65	135				
Methylene Chloride	21.92	1.0	20	0	110	65	135				
MTBE	20.95	0.50	20	0	105	65	135				
Naphthalene	15.14	0.50	20	0	75.7	65	135				
o-xylene	18.63	0.50	20	0	93.2	65	135				
Styrene	18.37	0.50	20	0	91.8	65	135				
t-Butyl alcohol (t-Butanol)	19.13	2.0	20	0	95.7	65	135				
tert-Amyl methyl ether (TAME)	16.50	0.50	20	0	82.5	65	135				
Tetrachloroethene	18.67	0.50	20	0	93.4	65	135				
Toluene	17.10	0.50	20	0	85.5	65	135				
trans-1,2-Dichloroethene	22.40	0.50	20	0	112	65	135				
Trichloroethene	19.13	0.50	20	0	95.7	65	135				
Trichlorofluoromethane	21.19	0.50	20	0	106	65	135				
Vinyl Acetate	21.17	0.50	20	0	106	65	135				
Vinyl Chloride	24.55	0.50	20	0	123	65	135				
Surr: 4-Bromofluorobenzene	17.50	0	20	0	87.5	65	135				

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: S18395

Sample ID **LCSD-S18395**	SampType: **LCSD**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **1/12/2009**	RunNo: **18395**
Client ID: **ZZZZZ**	Batch ID: **S18395**	TestNo: **TO-15**		Analysis Date: **1/12/2009**	SeqNo: **264945**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	21.16	0.50	20	0	106	65	135	22.52	6.23	30	
1,1,1,2-Tetrachloroethane	17.38	0.50	20	0	86.9	65	135	16.92	2.68	30	
1,1,1-Trichloroethane	21.37	0.50	20	0	107	65	135	20.98	1.84	30	
1,1,2,2-Tetrachloroethane	18.12	0.50	20	0	90.6	65	135	18.38	1.42	30	
1,1,2-Trichloroethane	17.89	0.50	20	0	89.4	65	135	18.72	4.53	30	
1,1-Dichloroethane	21.96	0.50	20	0	110	65	135	22.52	2.52	30	
1,2,4-Trichlorobenzene	15.00	0.50	20	0	75.0	65	135	15.29	1.91	30	
1,2,4-Trimethylbenzene	17.87	0.50	20	0	89.4	65	135	17.53	1.92	30	
1,2-Dibromoethane(Ethylene dibromide	18.25	0.50	20	0	91.2	65	135	18.39	0.764	30	
1,2-Dichlorobenzene	17.83	0.50	20	0	89.2	65	135	18.36	2.93	30	
1,2-Dichloroethane	18.87	0.50	20	0	94.4	65	135	17.52	7.42	30	
1,2-Dichloropropane	19.81	0.50	20	0	99.0	65	135	20.13	1.60	30	
1,3,5-Trimethylbenzene	17.90	0.50	20	0	89.5	65	135	18.16	1.44	30	
1,3-Butadiene	19.89	2.0	20	0	99.4	65	135	21.01	5.48	30	
1,3-Dichlorobenzene	18.19	0.50	20	0	91.0	65	135	18.38	1.04	30	
1,4-Dichlorobenzene	18.67	0.50	20	0	93.4	65	135	18.9	1.22	30	
1,4-Dioxane	17.20	0.50	20	0	86.0	65	135	15.43	10.8	30	
2-Butanone (MEK)	18.72	0.50	20	0	93.6	65	135	16.68	11.5	30	
2-Hexanone	14.22	0.50	20	0	71.1	65	135	14.5	1.95	30	
4-Ethyl Toluene	17.13	0.50	20	0	85.7	65	135	17.26	0.756	30	
4-Methyl-2-Pentanone (MIBK)	16.03	0.50	20	0	80.2	65	135	15.75	1.76	30	
Acetone	22.96	4.0	20	0	115	65	135	22.91	0.218	30	
Benzene	21.93	0.50	20	0	110	65	135	22.2	1.22	30	
Bromodichloromethane	18.36	0.50	20	0	91.8	65	135	18.3	0.327	30	
Bromoform	15.90	0.50	20	0	79.5	65	135	15.78	0.758	30	
Bromomethane	21.21	0.50	20	0	106	65	135	23.08	8.44	30	
Carbon Disulfide	17.84	0.50	20	0	89.2	65	135	22.68	23.9	30	
Carbon Tetrachloride	20.71	0.50	20	0	104	65	135	20.63	0.387	30	
Chlorobenzene	20.51	0.50	20	0	103	65	135	20.85	1.64	30	
Chloroethane	17.65	0.50	20	0	88.2	65	135	21.23	18.4	30	
Chloroform	18.28	0.50	20	0	91.4	65	135	21.68	17.0	30	

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0901027
Project: 2514/3815 Broadway,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: S18395

Sample ID **LCSD-S18395**	SampType: **LCSD**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **1/12/2009**	RunNo: **18395**
Client ID: **ZZZZZ**	Batch ID: **S18395**	TestNo: **TO-15**		Analysis Date: **1/12/2009**	SeqNo: **264945**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	18.51	0.50	20	0	92.6	65	135	22.11	17.7	30	
cis-1,2-dichloroethene	21.01	0.50	20	0	105	65	135	21.88	4.06	30	
cis-1,3-Dichloropropene	18.14	0.50	20	0	90.7	65	135	17.89	1.39	30	
Dibromochloromethane	17.97	0.50	20	0	89.8	65	135	18.39	2.31	30	
Diisopropyl ether (DIPE)	19.48	0.50	20	0	97.4	65	135	18.6	4.62	30	
Ethyl Acetate	17.58	0.50	20	0	87.9	65	135	17.73	0.850	30	
Ethyl Benzene	19.16	0.50	20	0	95.8	65	135	19.05	0.576	30	
Ethyl tert-butyl ether (ETBE)	20.83	0.50	20	0	104	65	135	21.24	1.95	30	
Freon 113	20.65	0.50	20	0	103	65	135	20.41	1.17	30	
Hexachlorobutadiene	14.68	0.50	20	0	73.4	65	135	14.05	4.39	30	
Hexane	19.93	2.0	20	0	99.7	65	135	20.86	4.56	30	
Isopropanol	18.31	4.0	20	0	91.6	65	135	18.45	0.762	30	
m,p-Xylene	38.18	0.50	40	0	95.4	65	135	37.95	0.604	30	
Methylene Chloride	20.67	1.0	20	0	103	65	135	21.92	5.87	30	
MTBE	21.09	0.50	20	0	105	65	135	20.95	0.666	30	
Naphthalene	15.26	0.50	20	0	76.3	65	135	15.14	0.789	30	
o-xylene	18.93	0.50	20	0	94.6	65	135	18.63	1.60	30	
Styrene	18.44	0.50	20	0	92.2	65	135	18.37	0.380	30	
t-Butyl alcohol (t-Butanol)	19.28	2.0	20	0	96.4	65	135	19.13	0.781	30	
tert-Amyl methyl ether (TAME)	17.17	0.50	20	0	85.8	65	135	16.5	3.98	30	
Tetrachloroethene	18.14	0.50	20	0	90.7	65	135	18.67	2.88	30	
Toluene	18.41	0.50	20	0	92.0	65	135	17.1	7.38	30	
trans-1,2-Dichloroethene	21.33	0.50	20	0	107	65	135	22.4	4.89	30	
Trichloroethene	19.13	0.50	20	0	95.7	65	135	19.13	0	30	
Trichlorofluoromethane	19.64	0.50	20	0	98.2	65	135	21.19	7.59	30	
Vinyl Acetate	20.04	0.50	20	0	100	65	135	21.17	5.48	30	
Vinyl Chloride	22.93	0.50	20	0	115	65	135	24.55	6.82	30	
Surr: 4-Bromofluorobenzene	18.04	0	20	0	90.2	65	135	0	0	30	

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Torrent LABORATORY, INC.
483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

RESET

CHAIN OF CUSTODY

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

LAB WORK ORDER NO 0901027

Company Name: **SOMA Environmental Engineering, Inc.**	Location of Sampling: **3815 Broadway, Oakland**
Address: **6620 Owens Drive, Suite A**	Purpose: **soil vapor extraction pilot test**
City: **Pleasanton** State: **CA** Zip Code: **94588**	Special Instructions / Comments: **dry cleaning site**
Telephone: **925-734-6400** FAX: **925-734-6401**	
REPORT TO: Joyce Bobek **SAMPLER: Jesse Acedillo**	**P.O. #: 2514** **EMAIL: jbobek@somaenv.com**

TURNAROUND TIME:
- ☐ 10 Work Days ☐ 3 Work Days ☐ Noon - Nxt Day
- ☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours
- ☑ 5 Work Days ☐ 1 Work Day ☐ Other

SAMPLE TYPE:
- ☐ Storm Water ☐ Air
- ☐ Waste Water ☑ Other (Soil Vapor)
- ☐ Ground Water
- ☐ Soil

REPORT FORMAT:
- ☐ QC Level IV
- ☑ EDF
- ☐ Excel / EDD

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TO-3, TPH-gas, ss	TO-15 - full list								REMARKS
001A	Effluent - Composite	1/7/09 @ 0700	air	1	tedlar	✓	✓								
002A	Midpoint - Composite	1/7/09 @ 0710	air	1	tedlar	✓	✓								
003A	Influent - Composite	1/7/09 @ 0720	air	1	tedlar	✓	✓								

ANALYSIS REQUESTED

	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:
1	Jesse Acedillo	Jesse Acedillo	1/9/9	0830	Joyce Bobek	Joyce Bobek	1/9/09	0830
2	Joyce Bobek	Joyce Bobek	1/1/09	11:25	C Moore	C Moore	1/9	11:25

Were Samples Received in Good Condition? ☐ Yes ☐ NO Samples on Ice? ☐ Yes ☐ NO Method of Shipment _____ Sample seals intact? ☐ Yes ☐ NO ☐ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Page 1 of 1

Log In By: C Moore Date: 1/9 Log In Reviewed By: Ray Kaur Date: 1/9/09 1:31pm H.S.

Torrent
LABORATORY, INC.

March 23, 2009

Joyce Bobek
Soma Environmnental Engineering, Inc.
6620 Owens Dr. Suite A
Pleasanton, CA 94588

TEL: (925) 734-6400
FAX (925) 734-6401

RE: 2515

Order No.: 0903076

Dear Joyce Bobek:

Torrent Laboratory, Inc. received 2 samples on 3/13/2009 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.
Reported data is applicable for only the samples received as part of the order number referenced above.

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

Sincerely,

Laboratory Director 3/23/09 Date

TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 3/13/2009
Date Reported: 3/23/2009

Client Sample ID: SOMA-2 EFF
Sample Location: 3815 Broadway, Oakland
Sample Matrix: AIR
Date/Time Sampled 3/10/2009 2:45:00 PM

Lab Sample ID: 0903076-001
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	3/13/2009	1.99	2.5	5.0	ND	µg/m³	R18963
1,1,1,2-Tetrachloroethane	TO-15	3/13/2009	3.44	2.5	8.6	ND	µg/m³	R18963
1,1,1-Trichloroethane	TO-15	3/13/2009	2.73	2.5	6.8	ND	µg/m³	R18963
1,1,2,2-Tetrachloroethane	TO-15	3/13/2009	3.44	2.5	8.6	ND	µg/m³	R18963
1,1,2-Trichloroethane	TO-15	3/13/2009	2.73	2.5	6.8	ND	µg/m³	R18963
1,1-Dichloroethane	TO-15	3/13/2009	2.03	2.5	5.1	ND	µg/m³	R18963
1,1-Difluoroethane	TO-15	3/13/2009	27	2.5	68	ND	µg/m³	R18963
1,2,4-Trichlorobenzene	TO-15	3/13/2009	3.56	2.5	8.9	ND	µg/m³	R18963
1,2,4-Trimethylbenzene	TO-15	3/13/2009	2.46	2.5	6.2	ND	µg/m³	R18963
1,2-Dibromoethane(Ethylene dibromide)	TO-15	3/13/2009	3.84	2.5	9.6	ND	µg/m³	R18963
1,2-Dichlorobenzene	TO-15	3/13/2009	3.01	2.5	7.5	ND	µg/m³	R18963
1,2-Dichloroethane	TO-15	3/13/2009	2.03	2.5	5.1	ND	µg/m³	R18963
1,2-Dichloropropane	TO-15	3/13/2009	2.31	2.5	5.8	ND	µg/m³	R18963
1,3,5-Trimethylbenzene	TO-15	3/13/2009	2.46	2.5	6.2	ND	µg/m³	R18963
1,3-Butadiene	TO-15	3/13/2009	4.44	2.5	11	ND	µg/m³	R18963
1,3-Dichlorobenzene	TO-15	3/13/2009	3.01	2.5	7.5	ND	µg/m³	R18963
1,4-Dichlorobenzene	TO-15	3/13/2009	3.01	2.5	7.5	ND	µg/m³	R18963
1,4-Dioxane	TO-15	3/13/2009	1.8	2.5	4.5	ND	µg/m³	R18963
2-Butanone (MEK)	TO-15	3/13/2009	1.48	2.5	3.7	39	µg/m³	R18963
2-Hexanone	TO-15	3/13/2009	2.05	2.5	5.1	ND	µg/m³	R18963
4-Ethyl Toluene	TO-15	3/13/2009	2.46	2.5	6.2	ND	µg/m³	R18963
4-Methyl-2-Pentanone (MIBK)	TO-15	3/13/2009	2.05	2.5	5.1	ND	µg/m³	R18963
Acetone	TO-15	3/13/2009	9.52	2.5	24	82	µg/m³	R18963
Benzene	TO-15	3/13/2009	1.6	2.5	4.0	ND	µg/m³	R18963
Bromodichloromethane	TO-15	3/13/2009	3.35	2.5	8.4	ND	µg/m³	R18963
Bromoform	TO-15	3/13/2009	5.17	2.5	13	ND	µg/m³	R18963
Bromomethane	TO-15	3/13/2009	1.94	2.5	4.8	ND	µg/m³	R18963
Carbon Disulfide	TO-15	3/13/2009	1.56	2.5	3.9	ND	µg/m³	R18963
Carbon Tetrachloride	TO-15	3/13/2009	3.15	2.5	7.9	ND	µg/m³	R18963
Chlorobenzene	TO-15	3/13/2009	2.3	2.5	5.8	ND	µg/m³	R18963
Chloroethane	TO-15	3/13/2009	1.32	2.5	3.3	ND	µg/m³	R18963
Chloroform	TO-15	3/13/2009	2.44	2.5	6.1	ND	µg/m³	R18963
Chloromethane	TO-15	3/13/2009	1.04	2.5	2.6	ND	µg/m³	R18963
cis-1,2-dichloroethene	TO-15	3/13/2009	1.98	2.5	5.0	ND	µg/m³	R18963
cis-1,3-Dichloropropene	TO-15	3/13/2009	2.27	2.5	5.7	ND	µg/m³	R18963
Dibromochloromethane	TO-15	3/13/2009	4.26	2.5	11	ND	µg/m³	R18963

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 3/13/2009
Date Reported: 3/23/2009

Client Sample ID: SOMA-2 EFF
Sample Location: 3815 Broadway, Oakland
Sample Matrix: AIR
Date/Time Sampled 3/10/2009 2:45:00 PM

Lab Sample ID: 0903076-001
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Dichlorodifluoromethane	TO-15	3/13/2009	2.48	2.5	6.2	ND	µg/m³	R18963
Diisopropyl ether (DIPE)	TO-15	3/13/2009	2.09	2.5	5.2	ND	µg/m³	R18963
Ethyl Acetate	TO-15	3/13/2009	1.8	2.5	4.5	ND	µg/m³	R18963
Ethyl Benzene	TO-15	3/13/2009	2.17	2.5	5.4	ND	µg/m³	R18963
Ethyl tert-butyl ether (ETBE)	TO-15	3/13/2009	2.09	2.5	5.2	ND	µg/m³	R18963
Freon 113	TO-15	3/13/2009	3.83	2.5	9.6	ND	µg/m³	R18963
Hexachlorobutadiene	TO-15	3/13/2009	5.34	2.5	13	ND	µg/m³	R18963
Hexane	TO-15	3/13/2009	14.1	2.5	35	ND	µg/m³	R18963
Isopropanol	TO-15	3/13/2009	16.4	2.5	41	ND	µg/m³	R18963
m,p-Xylene	TO-15	3/13/2009	2.05	2.5	5.1	ND	µg/m³	R18963
Methylene Chloride	TO-15	3/13/2009	3.61	2.5	9.0	ND	µg/m³	R18963
MTBE	TO-15	3/13/2009	1.81	2.5	4.5	ND	µg/m³	R18963
Naphthalene	TO-15	3/13/2009	2.62	2.5	6.6	ND	µg/m³	R18963
o-xylene	TO-15	3/13/2009	2.17	2.5	5.4	ND	µg/m³	R18963
Styrene	TO-15	3/13/2009	2.13	2.5	5.3	ND	µg/m³	R18963
t-Butyl alcohol (t-Butanol)	TO-15	3/13/2009	6.06	2.5	15	ND	µg/m³	R18963
tert-Amyl methyl ether (TAME)	TO-15	3/13/2009	2.09	2.5	5.2	ND	µg/m³	R18963
Tetrachloroethene	TO-15	3/13/2009	3.39	2.5	8.5	ND	µg/m³	R18963
Toluene	TO-15	3/13/2009	1.89	2.5	4.7	6.6	µg/m³	R18963
trans-1,2-Dichloroethene	TO-15	3/13/2009	1.98	2.5	5.0	ND	µg/m³	R18963
Trichloroethene	TO-15	3/13/2009	2.69	2.5	6.7	ND	µg/m³	R18963
Trichlorofluoromethane	TO-15	3/13/2009	2.48	2.5	6.2	ND	µg/m³	R18963
Vinyl Acetate	TO-15	3/13/2009	1.76	2.5	4.4	ND	µg/m³	R18963
Vinyl Chloride	TO-15	3/13/2009	1.28	2.5	3.2	ND	µg/m³	R18963
Surr: 4-Bromofluorobenzene	TO-15	3/13/2009	0	2.5	65-135	87.6	%REC	R18963
Gasoline	TO-3(MOD)	3/13/2009	352	5	1800	ND	µg/m³	G18963
Stoddard Solvent (C7-C12)	TO-3(MOD)	3/13/2009	352	5	1800	1800x	µg/m³	G18963

Note: x- Sample chromatogram does not resemble Stoddard solvent standard pattern. Reported value due to individual peaks within Stoddard solvent range.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 3/13/2009
Date Reported: 3/23/2009

Client Sample ID: SOMA-2 INF
Sample Location: 3815 Broadway, Oakland
Sample Matrix: AIR
Date/Time Sampled 3/10/2009 2:50:00 PM

Lab Sample ID: 0903076-002
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	3/13/2009	1.99	2500	5000	ND	µg/m³	R18963
1,1,1,2-Tetrachloroethane	TO-15	3/13/2009	3.44	2500	8600	ND	µg/m³	R18963
1,1,1-Trichloroethane	TO-15	3/13/2009	2.73	2500	6800	ND	µg/m³	R18963
1,1,2,2-Tetrachloroethane	TO-15	3/13/2009	3.44	2500	8600	ND	µg/m³	R18963
1,1,2-Trichloroethane	TO-15	3/13/2009	2.73	2500	6800	ND	µg/m³	R18963
1,1-Dichloroethane	TO-15	3/13/2009	2.03	2500	5100	ND	µg/m³	R18963
1,1-Difluoroethane	TO-15	3/13/2009	27	2500	68000	ND	µg/m³	R18963
1,2,4-Trichlorobenzene	TO-15	3/13/2009	3.56	2500	8900	ND	µg/m³	R18963
1,2,4-Trimethylbenzene	TO-15	3/13/2009	2.46	2500	6200	ND	µg/m³	R18963
1,2-Dibromoethane(Ethylene dibromide)	TO-15	3/13/2009	3.84	2500	9600	ND	µg/m³	R18963
1,2-Dichlorobenzene	TO-15	3/13/2009	3.01	2500	7500	ND	µg/m³	R18963
1,2-Dichloroethane	TO-15	3/13/2009	2.03	2500	5100	ND	µg/m³	R18963
1,2-Dichloropropane	TO-15	3/13/2009	2.31	2500	5800	ND	µg/m³	R18963
1,3,5-Trimethylbenzene	TO-15	3/13/2009	2.46	2500	6200	ND	µg/m³	R18963
1,3-Butadiene	TO-15	3/13/2009	4.44	2500	11000	ND	µg/m³	R18963
1,3-Dichlorobenzene	TO-15	3/13/2009	3.01	2500	7500	ND	µg/m³	R18963
1,4-Dichlorobenzene	TO-15	3/13/2009	3.01	2500	7500	ND	µg/m³	R18963
1,4-Dioxane	TO-15	3/13/2009	1.8	2500	4500	ND	µg/m³	R18963
2-Butanone (MEK)	TO-15	3/13/2009	1.48	2500	3700	ND	µg/m³	R18963
2-Hexanone	TO-15	3/13/2009	2.05	2500	5100	ND	µg/m³	R18963
4-Ethyl Toluene	TO-15	3/13/2009	2.46	2500	6200	ND	µg/m³	R18963
4-Methyl-2-Pentanone (MIBK)	TO-15	3/13/2009	2.05	2500	5100	ND	µg/m³	R18963
Acetone	TO-15	3/13/2009	9.52	2500	24000	ND	µg/m³	R18963
Benzene	TO-15	3/13/2009	1.6	2500	4000	ND	µg/m³	R18963
Bromodichloromethane	TO-15	3/13/2009	3.35	2500	8400	ND	µg/m³	R18963
Bromoform	TO-15	3/13/2009	5.17	2500	13000	ND	µg/m³	R18963
Bromomethane	TO-15	3/13/2009	1.94	2500	4800	ND	µg/m³	R18963
Carbon Disulfide	TO-15	3/13/2009	1.56	2500	3900	ND	µg/m³	R18963
Carbon Tetrachloride	TO-15	3/13/2009	3.15	2500	7900	ND	µg/m³	R18963
Chlorobenzene	TO-15	3/13/2009	2.3	2500	5800	ND	µg/m³	R18963
Chloroethane	TO-15	3/13/2009	1.32	2500	3300	ND	µg/m³	R18963
Chloroform	TO-15	3/13/2009	2.44	2500	6100	ND	µg/m³	R18963
Chloromethane	TO-15	3/13/2009	1.04	2500	2600	ND	µg/m³	R18963
cis-1,2-dichloroethene	TO-15	3/13/2009	1.98	2500	5000	18000	µg/m³	R18963
cis-1,3-Dichloropropene	TO-15	3/13/2009	2.27	2500	5700	ND	µg/m³	R18963
Dibromochloromethane	TO-15	3/13/2009	4.26	2500	11000	ND	µg/m³	R18963
Dichlorodifluoromethane	TO-15	3/13/2009	2.48	2500	6200	ND	µg/m³	R18963
Diisopropyl ether (DIPE)	TO-15	3/13/2009	2.09	2500	5200	ND	µg/m³	R18963
Ethyl Acetate	TO-15	3/13/2009	1.8	2500	4500	ND	µg/m³	R18963
Ethyl Benzene	TO-15	3/13/2009	2.17	2500	5400	ND	µg/m³	R18963
Ethyl tert-butyl ether (ETBE)	TO-15	3/13/2009	2.09	2500	5200	ND	µg/m³	R18963
Freon 113	TO-15	3/13/2009	3.83	2500	9600	ND	µg/m³	R18963
Hexachlorobutadiene	TO-15	3/13/2009	5.34	2500	13000	ND	µg/m³	R18963

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 3/13/2009
Date Reported: 3/23/2009

Client Sample ID: SOMA-2 INF
Sample Location: 3815 Broadway, Oakland
Sample Matrix: AIR
Date/Time Sampled 3/10/2009 2:50:00 PM

Lab Sample ID: 0903076-002
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	3/13/2009	14.1	2500	35000	ND	µg/m³	R18963
Isopropanol	TO-15	3/13/2009	16.4	2500	41000	ND	µg/m³	R18963
m,p-Xylene	TO-15	3/13/2009	2.05	2500	5100	ND	µg/m³	R18963
Methylene Chloride	TO-15	3/13/2009	3.61	2500	9000	ND	µg/m³	R18963
MTBE	TO-15	3/13/2009	1.81	2500	4500	ND	µg/m³	R18963
Naphthalene	TO-15	3/13/2009	2.62	2500	6600	ND	µg/m³	R18963
o-xylene	TO-15	3/13/2009	2.17	2500	5400	ND	µg/m³	R18963
Styrene	TO-15	3/13/2009	2.13	2500	5300	ND	µg/m³	R18963
t-Butyl alcohol (t-Butanol)	TO-15	3/13/2009	6.06	2500	15000	ND	µg/m³	R18963
tert-Amyl methyl ether (TAME)	TO-15	3/13/2009	2.09	2500	5200	ND	µg/m³	R18963
Tetrachloroethene	TO-15	3/13/2009	3.39	2500	8500	55000	µg/m³	R18963
Toluene	TO-15	3/13/2009	1.89	2500	4700	ND	µg/m³	R18963
trans-1,2-Dichloroethene	TO-15	3/13/2009	1.98	2500	5000	ND	µg/m³	R18963
Trichloroethene	TO-15	3/13/2009	2.69	2500	6700	ND	µg/m³	R18963
Trichlorofluoromethane	TO-15	3/13/2009	2.48	2500	6200	ND	µg/m³	R18963
Vinyl Acetate	TO-15	3/13/2009	1.76	2500	4400	ND	µg/m³	R18963
Vinyl Chloride	TO-15	3/13/2009	1.28	2500	3200	ND	µg/m³	R18963
Surr: 4-Bromofluorobenzene	TO-15	3/13/2009	0	2500	65-135	87.7	%REC	R18963

Note: The reporting limits were raised due supression of the internal standards used for peak quantitation. Supression due to the high concentration of heavy end hydrocarbons within range quantified as Stoddard solvent (see TO-3 data).

Gasoline	TO-3(MOD)	3/13/2009	352	500	180000	ND	µg/m³	G18963
Stoddard Solvent (C7-C12)	TO-3(MOD)	3/13/2009	352	500	180000	3800000	µg/m³	G18963

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0903076
Project: 2515

ANALYTICAL QC SUMMARY REPORT

BatchID: G18963

Sample ID	**LCS-G-G18963**	SampType:	**LCS**	TestCode:	**TO-3Gas (MO**	Units:	**ppbv**	Prep Date:	**3/13/2009**	RunNo:	**18963**
Client ID:	**ZZZZZ**	Batch ID:	**G18963**	TestNo:	**TO-3(MOD)**			Analysis Date:	**3/13/2009**	SeqNo:	**273657**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	470.1	100	500	0	94.0	50	150				

Sample ID	**LCSD-G-G18963**	SampType:	**LCSD**	TestCode:	**TO-3Gas (MO**	Units:	**ppbv**	Prep Date:	**3/13/2009**	RunNo:	**18963**
Client ID:	**ZZZZZ**	Batch ID:	**G18963**	TestNo:	**TO-3(MOD)**			Analysis Date:	**3/13/2009**	SeqNo:	**273658**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	475.5	100	500	0	95.1	50	150	470.1	1.14	30	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0903076
Project: 2515

ANALYTICAL QC SUMMARY REPORT

BatchID: R18963

Sample ID **MB-R18963**	SampType: **MBLK**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **3/12/2009**	RunNo: **18963**
Client ID: **ZZZZZ**	Batch ID: **R18963**	TestNo: **TO-15**		Analysis Date: **3/12/2009**	SeqNo: **273400**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	ND	0.50									
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromoethane(Ethylene dibromide	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Butadiene	ND	2.0									
1,3-Dichlorobenzene	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
1,4-Dioxane	ND	0.50									
2-Butanone (MEK)	ND	0.50									
2-Hexanone	ND	0.50									
4-Ethyl Toluene	ND	0.50									
4-Methyl-2-Pentanone (MIBK)	ND	0.50									
Acetone	ND	4.0									
Benzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon Disulfide	ND	0.50									
Carbon Tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0903076
Project: 2515

ANALYTICAL QC SUMMARY REPORT

BatchID: R18963

Sample ID **MB-R18963**	SampType: **MBLK**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **3/12/2009**	RunNo: **18963**
Client ID: **ZZZZZ**	Batch ID: **R18963**	TestNo: **TO-15**		Analysis Date: **3/12/2009**	SeqNo: **273400**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	ND	0.50									
cis-1,2-dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Diisopropyl ether (DIPE)	ND	0.50									
Ethyl Acetate	ND	0.50									
Ethyl Benzene	ND	0.50									
Ethyl tert-butyl ether (ETBE)	ND	0.50									
Freon 113	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Hexane	ND	2.0									
Isopropanol	ND	4.0									
m,p-Xylene	ND	0.50									
Methylene Chloride	ND	1.0									
MTBE	ND	0.50									
Naphthalene	ND	0.50									
o-xylene	ND	0.50									
Styrene	ND	0.50									
t-Butyl alcohol (t-Butanol)	ND	2.0									
tert-Amyl methyl ether (TAME)	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl Acetate	ND	0.50									
Vinyl Chloride	ND	0.50									
Surr: 4-Bromofluorobenzene	17.82	0	20	0	89.1	65	135				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0903076
Project: 2515

ANALYTICAL QC SUMMARY REPORT

BatchID: R18963

Sample ID **LCS-R18963**	SampType: **LCS**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **3/12/2009**	RunNo: **18963**
Client ID: **ZZZZZ**	Batch ID: **R18963**	TestNo: **TO-15**		Analysis Date: **3/12/2009**	SeqNo: **273401**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	22.17	0.50	20	0	111	65	135				
1,1,1,2-Tetrachloroethane	20.48	0.50	20	0	102	65	135				
1,1,1-Trichloroethane	20.30	0.50	20	0	102	65	135				
1,1,2,2-Tetrachloroethane	21.40	0.50	20	0	107	65	135				
1,1,2-Trichloroethane	21.31	0.50	20	0	107	65	135				
1,1-Dichloroethane	21.14	0.50	20	0	106	65	135				
1,2,4-Trichlorobenzene	21.58	0.50	20	0	108	65	135				
1,2,4-Trimethylbenzene	20.33	0.50	20	0	102	65	135				
1,2-Dibromoethane(Ethylene dibromide	19.56	0.50	20	0	97.8	65	135				
1,2-Dichlorobenzene	21.99	0.50	20	0	110	65	135				
1,2-Dichloroethane	19.72	0.50	20	0	98.6	65	135				
1,2-Dichloropropane	20.32	0.50	20	0	102	65	135				
1,3,5-Trimethylbenzene	20.67	0.50	20	0	103	65	135				
1,3-Butadiene	21.82	2.0	20	0	109	65	135				
1,3-Dichlorobenzene	21.86	0.50	20	0	109	65	135				
1,4-Dichlorobenzene	21.42	0.50	20	0	107	65	135				
1,4-Dioxane	19.46	0.50	20	0	97.3	65	135				
2-Butanone (MEK)	21.39	0.50	20	0	107	65	135				
2-Hexanone	19.80	0.50	20	0	99.0	65	135				
4-Ethyl Toluene	20.97	0.50	20	0	105	65	135				
4-Methyl-2-Pentanone (MIBK)	20.07	0.50	20	0	100	65	135				
Acetone	19.30	4.0	20	0	96.5	65	135				
Benzene	21.62	0.50	20	0	108	65	135				
Bromodichloromethane	20.51	0.50	20	0	103	65	135				
Bromoform	20.45	0.50	20	0	102	65	135				
Bromomethane	20.78	0.50	20	0	104	65	135				
Carbon Disulfide	21.22	0.50	20	0	106	65	135				
Carbon Tetrachloride	21.43	0.50	20	0	107	65	135				
Chlorobenzene	21.06	0.50	20	0	105	65	135				
Chloroethane	22.87	0.50	20	0	114	65	135				
Chloroform	21.24	0.50	20	0	106	65	135				

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0903076
Project: 2515

ANALYTICAL QC SUMMARY REPORT

BatchID: R18963

Sample ID **LCS-R18963**	SampType: **LCS**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **3/12/2009**	RunNo: **18963**
Client ID: **ZZZZZ**	Batch ID: **R18963**	TestNo: **TO-15**		Analysis Date: **3/12/2009**	SeqNo: **273401**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	24.78	0.50	20	0	124	65	135				
cis-1,2-dichloroethene	22.67	0.50	20	0	113	65	135				
cis-1,3-Dichloropropene	20.40	0.50	20	0	102	65	135				
Dibromochloromethane	20.34	0.50	20	0	102	65	135				
Dichlorodifluoromethane	15.36	0.50	20	0	76.8	65	135				
Diisopropyl ether (DIPE)	22.26	0.50	20	0	111	65	135				
Ethyl Acetate	21.08	0.50	20	0	105	65	135				
Ethyl Benzene	19.58	0.50	20	0	97.9	65	135				
Ethyl tert-butyl ether (ETBE)	22.40	0.50	20	0	112	65	135				
Freon 113	20.53	0.50	20	0	103	65	135				
Hexachlorobutadiene	20.94	0.50	20	0	105	65	135				
Hexane	22.44	2.0	20	0	112	65	135				
Isopropanol	23.01	4.0	20	0	115	65	135				
m,p-Xylene	41.02	0.50	40	0	103	65	135				
Methylene Chloride	22.20	1.0	20	0	111	65	135				
MTBE	21.42	0.50	20	0	107	65	135				
Naphthalene	19.89	0.50	20	0	99.4	65	135				
o-xylene	20.59	0.50	20	0	103	65	135				
Styrene	20.11	0.50	20	0	101	65	135				
t-Butyl alcohol (t-Butanol)	24.02	2.0	20	0	120	65	135				
tert-Amyl methyl ether (TAME)	21.20	0.50	20	0	106	65	135				
Tetrachloroethene	20.98	0.50	20	0	105	65	135				
Toluene	20.99	0.50	20	0	105	65	135				
trans-1,2-Dichloroethene	23.40	0.50	20	0	117	65	135				
Trichloroethene	21.80	0.50	20	0	109	65	135				
Trichlorofluoromethane	25.23	0.50	20	0	126	65	135				
Vinyl Acetate	19.08	0.50	20	0	95.4	65	135				
Vinyl Chloride	20.35	0.50	20	0	102	65	135				
Surr: 4-Bromofluorobenzene	21.19	0	20	0	106	65	135				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0903076
Project: 2515

ANALYTICAL QC SUMMARY REPORT

BatchID: R18963

Sample ID **LCSD-R18963**	SampType: **LCSD**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **3/12/2009**	RunNo: **18963**
Client ID: **ZZZZZ**	Batch ID: **R18963**	TestNo: **TO-15**		Analysis Date: **3/12/2009**	SeqNo: **273402**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	21.68	0.50	20	0	108	65	135	22.17	2.23	30	
1,1,1,2-Tetrachloroethane	20.59	0.50	20	0	103	65	135	20.48	0.536	30	
1,1,1-Trichloroethane	21.50	0.50	20	0	108	65	135	20.3	5.74	30	
1,1,2,2-Tetrachloroethane	21.75	0.50	20	0	109	65	135	21.4	1.62	30	
1,1,2-Trichloroethane	22.38	0.50	20	0	112	65	135	21.31	4.90	30	
1,1-Dichloroethane	21.73	0.50	20	0	109	65	135	21.14	2.75	30	
1,2,4-Trichlorobenzene	21.95	0.50	20	0	110	65	135	21.58	1.70	30	
1,2,4-Trimethylbenzene	20.89	0.50	20	0	104	65	135	20.33	2.72	30	
1,2-Dibromoethane(Ethylene dibromide	19.86	0.50	20	0	99.3	65	135	19.56	1.52	30	
1,2-Dichlorobenzene	22.16	0.50	20	0	111	65	135	21.99	0.770	30	
1,2-Dichloroethane	20.12	0.50	20	0	101	65	135	19.72	2.01	30	
1,2-Dichloropropane	21.26	0.50	20	0	106	65	135	20.32	4.52	30	
1,3,5-Trimethylbenzene	21.02	0.50	20	0	105	65	135	20.67	1.68	30	
1,3-Butadiene	22.54	2.0	20	0	113	65	135	21.82	3.25	30	
1,3-Dichlorobenzene	21.92	0.50	20	0	110	65	135	21.86	0.274	30	
1,4-Dichlorobenzene	22.01	0.50	20	0	110	65	135	21.42	2.72	30	
1,4-Dioxane	20.43	0.50	20	0	102	65	135	19.46	4.86	30	
2-Butanone (MEK)	21.66	0.50	20	0	108	65	135	21.39	1.25	30	
2-Hexanone	20.87	0.50	20	0	104	65	135	19.8	5.26	30	
4-Ethyl Toluene	21.14	0.50	20	0	106	65	135	20.97	0.807	30	
4-Methyl-2-Pentanone (MIBK)	19.88	0.50	20	0	99.4	65	135	20.07	0.951	30	
Acetone	20.65	4.0	20	0	103	65	135	19.3	6.76	30	
Benzene	22.18	0.50	20	0	111	65	135	21.62	2.56	30	
Bromodichloromethane	20.84	0.50	20	0	104	65	135	20.51	1.60	30	
Bromoform	20.61	0.50	20	0	103	65	135	20.45	0.779	30	
Bromomethane	20.34	0.50	20	0	102	65	135	20.78	2.14	30	
Carbon Disulfide	21.75	0.50	20	0	109	65	135	21.22	2.47	30	
Carbon Tetrachloride	22.14	0.50	20	0	111	65	135	21.43	3.26	30	
Chlorobenzene	22.12	0.50	20	0	111	65	135	21.06	4.91	30	
Chloroethane	23.44	0.50	20	0	117	65	135	22.87	2.46	30	
Chloroform	20.14	0.50	20	0	101	65	135	21.24	5.32	30	

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0903076
Project: 2515

ANALYTICAL QC SUMMARY REPORT

BatchID: R18963

Sample ID **LCSD-R18963**	SampType: **LCSD**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **3/12/2009**	RunNo: **18963**
Client ID: **ZZZZZ**	Batch ID: **R18963**	TestNo: **TO-15**		Analysis Date: **3/12/2009**	SeqNo: **273402**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	24.90	0.50	20	0	125	65	135	24.78	0.483	30	
cis-1,2-dichloroethene	22.87	0.50	20	0	114	65	135	22.67	0.878	30	
cis-1,3-Dichloropropene	21.45	0.50	20	0	107	65	135	20.4	5.02	30	
Dibromochloromethane	21.08	0.50	20	0	105	65	135	20.34	3.57	30	
Dichlorodifluoromethane	15.54	0.50	20	0	77.7	65	135	15.36	1.17	30	
Diisopropyl ether (DIPE)	23.49	0.50	20	0	117	65	135	22.26	5.38	30	
Ethyl Acetate	21.00	0.50	20	0	105	65	135	21.08	0.380	30	
Ethyl Benzene	20.22	0.50	20	0	101	65	135	19.58	3.22	30	
Ethyl tert-butyl ether (ETBE)	23.00	0.50	20	0	115	65	135	22.4	2.64	30	
Freon 113	21.21	0.50	20	0	106	65	135	20.53	3.26	30	
Hexachlorobutadiene	21.37	0.50	20	0	107	65	135	20.94	2.03	30	
Hexane	22.89	2.0	20	0	114	65	135	22.44	1.99	30	
Isopropanol	23.45	4.0	20	0	117	65	135	23.01	1.89	30	
m,p-Xylene	40.62	0.50	40	0	102	65	135	41.02	0.980	30	
Methylene Chloride	21.92	1.0	20	0	110	65	135	22.2	1.27	30	
MTBE	21.89	0.50	20	0	109	65	135	21.42	2.17	30	
Naphthalene	20.66	0.50	20	0	103	65	135	19.89	3.80	30	
o-xylene	20.84	0.50	20	0	104	65	135	20.59	1.21	30	
Styrene	20.34	0.50	20	0	102	65	135	20.11	1.14	30	
t-Butyl alcohol (t-Butanol)	23.61	2.0	20	0	118	65	135	24.02	1.72	30	
tert-Amyl methyl ether (TAME)	21.57	0.50	20	0	108	65	135	21.2	1.73	30	
Tetrachloroethene	21.37	0.50	20	0	107	65	135	20.98	1.84	30	
Toluene	21.54	0.50	20	0	108	65	135	20.99	2.59	30	
trans-1,2-Dichloroethene	22.03	0.50	20	0	110	65	135	23.4	6.03	30	
Trichloroethene	21.73	0.50	20	0	109	65	135	21.8	0.322	30	
Trichlorofluoromethane	26.26	0.50	20	0	131	65	135	25.23	4.00	30	
Vinyl Acetate	20.83	0.50	20	0	104	65	135	19.08	8.77	30	
Vinyl Chloride	23.88	0.50	20	0	119	65	135	20.35	16.0	30	
Surr: 4-Bromofluorobenzene	20.90	0	20	0	104	65	135	0	0	30	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Torrent LABORATORY, INC.
483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

RESET

CHAIN OF CUSTODY

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

LAB WORK ORDER NO: 0903076

Company Name: **SOMA Environmental Engineering, Inc.**	Location of Sampling: **3815 Broadway, Oakland**
Address: **6620 Owens Drive, Suite A**	Purpose: **soil vapor extraction**
City: **Pleasanton** State: **CA** Zip Code: **94588**	Special Instructions / Comments:
Telephone: **925-734-6400** FAX: **925-734-6401**	**dry cleaning site**
REPORT TO: **Joyce Bobek** SAMPLER: **Jesse Acedillo**	P.O. #: **2515** EMAIL: **jbobek@somaenv.com**

TURNAROUND TIME:
- ☐ 10 Work Days ☐ 3 Work Days ☐ Noon - Nxt Day
- ☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours
- ☑ 5 Work Days ☐ 1 Work Day ☐ Other

SAMPLE TYPE:
- ☐ Storm Water ☐ Air
- ☐ Waste Water ☑ Other
- ☐ Ground Water
- ☐ Soil

REPORT FORMAT:
- ☐ QC Level IV
- ☑ EDF
- ☐ Excel / EDD

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TO-3, TPH-gas, ss	TO-15 - full list								REMARKS
001A	SOMA-2 EFF	3/10/9 @ 1445	air	1	tedlar	✓	✓								
002A	SOMA-2 INF	3/10/9 @ 1450	air	1	tedlar	✓	✓								

	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:
1	Jesse Acedillo	Jesse Acedillo	3/13/9	0930	Mike Lee	Mike Lee	3/13/09	10:31 am
2	Joyce Bobek	Joyce Bobek	3/13/09	Time: 1105 ML 10:30	T. G. Ghodasara NAVIN		3/13/09	11:05 Am

Were Samples Received in Good Condition? ☐ Yes ☐ NO Samples on Ice? ☐ Yes ☐ NO Method of Shipment First Courier Sample seals intact? ☐ Yes ☐ NO ☐ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrange -ments are made.

Page 1 of 1

Log In By: Date: Log In Reviewed By: Date:

First Courier

APPENDIX F

Non-Hazardous Waste Manifest

for Groundwater Removal

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone NRCES 510-749-1390

4. Waste Tracking Number 39013-06

5. Generator's Name and Mailing Address
MARTHA DEPPER
31 MUTH DR
ORINDA CA 94563
Att: MARTHA DEPPER

Generator's Site Address (if different than mailing address)
MARTHA DEPPER
3820 MANILA AVE
OAKLAND CA 94609

Generator's Phone:

6. Transporter 1 Company Name
NRC ENVIRONMENTAL SERVICES INC

U.S. EPA ID Number
CAR 0 0 0 0 3 0 1 1 4

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street
Long Beach CA 90813

U.S. EPA ID Number
CAD 0 2 8 4 0 8 0 1 8

Facility's Phone: 562 432 5445

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS WASTE LIQUID (PURGE WATER) (PROFILE# 61546)	1	DM	200	G	NONE
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JOB#/PO#: 39013
CONSULTANT: SOMA ENVIRONMENTAL 6620 OWENS DRIVE, SUITE A, PLEASANTON, CA.
NRCES, 1605 FERRY POINT, ALAMEDA, CA 94501

D4677

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Elizabeth Hightower for SOMA
Signature: E. Hightower
Month 12 Day 08 Year 08

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Gary Scott
Signature: Gary Scott
Month 12 Day 08 Year 08

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

1135

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Laura Christensen
Signature: Laura Christensen
Month 12 Day 15 Year 08