Groundwater and Soil Gas Sampling Results – December 2008 Report

Chloroform Release Area at
Former Building 028J

Prepared for:
Hitachi Global Storage Technologies, Inc.
San Jose, California

Prepared by:
ENVIRON International Corporation
Emeryville, California

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Project Number:
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Prepared by:

ENVIRON International Corporation
6001 Shellmound Street, Suite 700
Emeryville, California 94608
Tel. (510) 655-7400

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//original signed by//

Anne Wooster Gates, P.E.
Senior Manager
ENVIRON International Corporation

REGISTERED PROFESSIONAL ENGINEER
ANNE WOOSTER
No. C 043195
Exp. 3/31/2010
CIVIL
STATE OF CALIFORNIA

Prepared for:

Hitachi Global Storage Technologies, Inc.
5600 Cottle Road, Building 109
San Jose, California 95193
Tel. (408) 717-6646

//original signed by//

Michael L. Hall
Director WW Real Estate Site Operations
Hitachi Global Storage Technologies, Inc.

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List of Acronyms

bgs	below ground surface
CalEPA	California Environmental Protection Agency
CAO	Corrective Action Objective
CMS	Corrective Measure Study
CSM	Conceptual Site Model
DFA	Difluoroethane
DOT	Department of Transportation
DTSC	Department of Toxic Substances Control
ESL	Environmental Screening Level
Hg	Mercury
in	inches
kg	kilogram
L	liter
LARWQCB	Los Angeles Regional Water Quality Control Board
µg	microgram
min	minute
mL	milliliter
QAPP	Quality Assurance Project Plan
QC	Quality Control
RBTC	Risk-Based Target Concentration
SFRWQCB	San Francisco Regional Water Quality Control Board
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compound

1 INTRODUCTION

ENVIRON International Corporation (ENVIRON) has prepared this *Groundwater and Soil Gas Sampling Results – December 2008 Report for the Chloroform Release Area at Former Building 028J* on behalf of Hitachi Global Storage Technologies, Inc. (Hitachi GST). This report documents the groundwater and soil gas sampling activities that were completed in December 2008 to evaluate the presence of chloroform in the subsurface near former Building 028J. The former Building 028J area is located within the Redevelopment Property of the Hitachi GST facility at 5600 Cottle Road in San Jose, California ("the Site").

The *Corrective Measures Study Report for the Chloroform Release Area at Former Building 028J* (CMS Report) (ENVIRON, August 2007) identified 2-PHASE™ Extraction as the selected corrective action for remediating chloroform in the former Building 028J area. Full-scale operation of 2-PHASE™ Extraction in the area began in July 2007 and was discontinued in August 2008.

As documented in the *Final Remedy Completion Report for the Chloroform Release Area at Former Building 028J* (Final Remedy Completion Report) (ENVIRON, November 2008), groundwater, soil gas, and soil sampling were conducted in the former Building 028J area prior to remediation, during or intra-remediation, and post-remediation. Prior post-remediation groundwater and soil gas sampling was conducted in August 2008 and October 2008.

In consultation with the California Environmental Protection Agency (CalEPA), Department of Toxics Substances Control (DTSC), Hitachi GST undertook in December 2008 an additional round of post-remediation groundwater and soil gas sampling at the former Building 028J area to confirm the continued attainment of DTSC-approved correction action objectives (CAOs). The additional sampling was conducted in accordance with the DTSC-approved *Work Plan for Additional Groundwater and Soil Gas Sampling at the Former Building 028J Chloroform Release Area* (Work Plan) (ENVIRON, December 2008), and with the established Quality Assurance Project Plan (QAPP) included as Appendix G to the CMS Report (ENVIRON, August 2007). The sampling was conducted under the direct on-site supervision of DTSC representatives Paul Ruffin, Project Manager, and Buck King, Engineering Geologist.

The test results in December 2008 have confirmed that the concentrations of chloroform in soil gas in the vadose zone remain well below the DTSC-approved risk-based target concentrations (RBTCs) and are stable. Also with the onset of the seasonal recharge of the water table, the concentrations of chloroform in groundwater, as measured in on-site monitoring wells, has begun to decline, consistent with the natural flushing process that will eventually remove the remaining chloroform from the shallow aquifer. These data demonstrate that the cleanup of the former Building 028J area has achieved the requirements specified by the DTSC for final Site closure.

This report is divided into seven sections. Section 2 summarizes the groundwater sampling activities and presents the December 2008 groundwater sampling results. Section 3 summarizes the soil gas sampling activities and presents the December 2008 soil gas sampling results. Section 4 presents an analysis of the groundwater and soil gas data. Section 5 discusses the Conceptual Site Model (CSM) and how the recently collected data supports this model. Section 6 summarizes the information and presents conclusions. All references cited in this report are included in Section 7.

2 GROUNDWATER

2.1 Groundwater Sampling Activities

On December 19 and December 22, 2008, ENVIRON and its subcontractor, Blaine Tech Services, Inc., collected groundwater samples from eight A-Aquifer groundwater wells (EW-4, EW-5, EW-6, EW-9, EW-10, EW-13, EW-14, and EW-16) and two groundwater wells screened in the A/B aquitard (EW-17 and EW-18). The locations of the wells are shown on Figure 1.

In accordance with the QAPP, prior to mobilizing the sampling rig to the Site, the rig and all associated equipment were cleaned with a high-pressure steam washer to remove any oil, grease, mud, tar, and other foreign matter. In order to minimize the potential for cross-contamination, equipment used during the field activities (including all non-dedicated sampling equipment) was decontaminated between uses at each sampling location. Decontamination consisted of a detergent wash (Liquinox®) followed by a clean water wash, and finally a clean steam/water rinse.

During sampling, an ENVIRON geologist was on-site to direct the gauging and purging of the groundwater wells, as well as to collect and maintain custody of all groundwater samples and ensure adherence to the procedures described in the QAPP. In addition, a representative from the DTSC was on-site during the sampling of all wells to provide oversight of the sampling activities. Paul Ruffin, Project Manager for the DTSC, was on-site during the December 19th sampling of EW-5, EW-9, EW-16, EW-17, and EW-18; Buck King, Engineering Geologist for the DTSC, was on-site during the December 22nd sampling of EW-4, EW-6, EW-10, EW-13, and EW-14.

Prior to sampling, the depth to groundwater was measured in each well using a battery-operated water level indicator with gradations marked at 0.01 foot intervals. Following water level measurement, each of the wells was purged using a Grundfos Redi-flo2 submersible pump. During purging, field water quality parameters (temperature, pH, specific conductance, turbidity) were monitored to evaluate the onset of steady-state conditions. In addition, drawdown in the well was continually monitored at the same intervals as the field water quality parameters. Groundwater wells were sampled when the water quality parameters stabilized and a minimum of three casing volumes of water were evacuated or, in the case of EW-17, which is a very low-yielding well, when the well recovered sufficiently to allow sampling after being dewatered. Sampling of groundwater was achieved by using a disposable bottom-filling bailer gently lowered down the well by hand. Sample containers were filled using a low-flow tip attached to the bottom of the bailer. Field quality control (QC) samples consisted of one trip blank, one equipment blank, and one duplicate sample collected for each day of sampling. All samples were collected in laboratory-supplied glassware and were subsequently sealed, labeled, placed in plastic bags, and stored on ice in a closed container.

Groundwater samples and all field QC samples were submitted to Test America Laboratories, Inc., of Pleasanton, California under chain-of-custody protocol for analysis of chloroform by United States Environmental Protection Agency (USEPA) Method 8260B on a 24-hour turn-around time.

Purge and decontamination water were collected in 55-gallon Department of Transportation (DOT) approved drums that were labeled and sealed following completion of field activities. The drums were stored within the construction fencing delineating the former Building 028J area.

2.2 Groundwater Sampling Results

The groundwater chloroform results for EW-1 through EW-16 (i.e. wells in the A-Aquifer) are shown on Figure 1 and summarized in Table 1. The groundwater analytical reports for the December 2008 sampling are included in Appendix A. Table 1 includes all thirteen groundwater sampling events since May 2007, prior to remediation. As shown in this table, all groundwater results are below the DTSC-approved RBTC of 380 micrograms per liter (µg/L). Only three wells remain above the San Francisco Regional Water Quality Control Board (SFRWQCB) action level of 80 µg/L for drinking water (EW-5 at 91 µg/L, EW-10 at 83 µg/L, and EW-16 at 140 µg/L). As shown on Table 5, the average concentration of chloroform in on-site wells (EW-4, EW-5, EW-6, EW-9, EW-10, EW-13, EW-14 and EW-16) is 72 µg/L, which is a demonstrable decline from the average of 117 µg/L in October 2008, before the onset of seasonal recharge.

The groundwater results for EW-17 and EW-18 (i.e. wells screened primarily in the A/B Aquitard) are summarized in Table 2. The concentration of chloroform in EW-18 remains relatively low at 37 µg/L and is consistent with the October 2008 test result. Based on the relatively rapid rate of recovery of the water in the well after purging, it is probable that the water sampled from EW-18 reflects significant dilution by blending with water from the overlying A-Aquifer. The concentration of chloroform in EW-17 increased to 560 µg/L in the December 2008 result. After purging, this well was very slow to recover, and it is likely the more elevated concentration of chloroform in EW-17 reflects the quality of pore water in the A/B Aquitard. Furthermore, the maximum concentration of chloroform in soil (1,400 micrograms per kilogram, µg/kg) was detected in a soil sample collected from the A/B Aquitard at a depth of 36 feet below ground surface (bgs) during installation of EW-17 in May 2008. As a result, it is to be expected that the A/B aquitard pore water concentration would be elevated in comparison to other A/B aquitard and A-Aquifer groundwater samples.

3 SOIL GAS

3.1 Installation of Semi-Permanent Soil Gas Probes

On December 22 and December 23, 2008, ENVIRON and its subcontractor, TEG Northern California (TEG), advanced 15 direct-push soil borings at seven locations for the purpose of installing semi-permanent soil gas probes. The seven soil gas sampling locations are shown on Figure 2 and include five previously sampled locations (SG-028J-27, SG-028J-29, SG-028J-30, SG-028J-33, and SG-028J-36) as well as two new locations (designated SG-028J-38 and SG-028J-39). Soil gas samples were collected at five and 10 feet bgs to provide trend information on the prior soil gas test results in shallow soils. Samples were also collected at 15 feet to examine the concentrations of chloroform in soil gas in the deeper vadose zone, and at 23 to 25 feet bgs to examine the concentration of chloroform in soil gas just above and in equilibrium with the capillary fringe and water table. The installation of soil gas probes and the collection of samples from these probes were performed in accordance with the established QAPP as well as in general conformance with the current joint DTSC and Los Angeles Regional Water Quality Control Board (LARWQCB) Active Soil Gas Advisory (the "DTSC/LARWQCB Advisory") (DTSC/LARWQCB 2003).

In accordance with the QAPP, prior to mobilizing the drilling rigs to the Site, the rigs and all associated equipment were cleaned with a high-pressure, steam washer to remove any oil, grease, mud, tar, and other foreign matter. In order to minimize the potential for cross-contamination, equipment used during the field activities (including all non-dedicated sampling equipment) was decontaminated between uses at each sampling location. Decontamination consisted of a detergent wash (Alconox®) followed by a clean water wash, and finally a clean water rinse.

During installation of the soil gas probes, ENVIRON geologists were on-site to direct the drilling and soil probe installation activities. In addition, Buck King of the DTSC was on-site for the duration of the drilling, soil gas probe installation, and soil gas sampling to supervise these activities as well as consult with ENVIRON as necessary on appropriate depths for installation of the soil gas probes. See Table 3 for a summary of the soil gas probe construction details.

At each of the seven locations described above, generally two borings[1] were advanced to allow for the installation of nested soil gas probes at three or four discrete depths as described in the Work Plan. All borings were continuously-cored to avoid compressing the surrounding formation. Soil cores were collected in acetate sleeves and the cores lithologically logged at a minimum of one boring per location. Based on the soil cores, soil gas probe depths were adjusted based on the suitability of soils for the collection of a soil gas sample. Such adjustments were made as needed to avoid very moist to wet conditions that would preclude pulling soil vapor. These adjustments to the depth of the soil gas probes from that stipulated in the Work Plan (ENVIRON, December 2008) were made in consultation with Buck King of the DTSC.

[1] At location SG-028J-30, a third boring was advanced to allow for the installation of a five-foot soil gas probe that was not included in the 15-foot nested soil gas probe.

Each soil gas probe was constructed by placing a new half-inch sintered stainless steel filter at the depth specified by ENVIRON geologists in consultation with Buck King of the DTSC. New 0.25-inch outside diameter (0.187-inch inside diameter)[2] Teflon® tubing was attached to the screen, which extended in one piece to above the ground surface. The filter was emplaced within a one-foot sand pack comprised of clean, kiln-dried Monterrey 30-mesh sand. Between one and two feet of dry granular bentonite was emplaced on top of each sand pack and then the borehole was grouted to the surface with neat cement grout using a tremie pipe. Where multiple probe depths were installed in the same borehole, the borehole was also grouted using a tremie pipe between probe depths. One to two feet of dry granular bentonite was emplaced between the filter pack and the grout at each probe depth to ensure than grout would not plug the sand pack. After completion of the installation of the soil gas probes, the probe depths were confirmed using new 0.125-inch outer diameter nylon tubing, calibrated against a steel tape, which was advanced down into the 0.25-inch Teflon® tubing of each soil gas probe.

The semi-permanent soil gas probes were completed at the surface to prevent infiltration of water and ambient air into the subsurface. This completion included a monument comprised of a securable plastic box emplaced within a cement grout pad. The probe tubing was labeled at the surface for depth and completed with a tight fitting cap and was then secured with the monument.

Soil cuttings were collected in 55-gallon DOT approved drums that were labeled and sealed following completion of field activities. The drums were stored within the construction fencing delineating the former Building 028J area.

3.2 Soil Gas Sampling Activities

Soil gas probes were allowed to equilibrate a minimum of 30 minutes before sampling. Following equilibration, a laboratory-supplied 1-Liter Summa™ canister was attached to the tubing via quarter-inch Swagelok fittings. A laboratory-supplied critical orifice flow controller (calibrated to 200 milliliters per minute, mL/min) with integral particulate filter was installed immediately upstream of the Summa™ canister. Upstream of the flow controller, a fitting allowing a valved connection to a 50 mL syringe was installed to allow purging of the sand pack and tubing. Once the connections were made, fittings and adjacent tubing were wrapped in non-adhesive silicone tape and the soil gas probes were tested for recoverable vapor by applying vacuum using the purging syringe. Only one soil gas probe (the 15-foot probe at SG-028J-30) did not have recoverable vapor as evidenced by complete pullback[3] of the syringe plunger. This probe was tested numerous times, but never produced vapor. This was likely due to the presence of very moist to wet conditions at this location from a depth of approximately 11 feet to a depth of approximately 22 feet bgs.

[2] Measured directly using a zeroed vernier caliper.

[3] After pulling the plunger of the syringe and releasing, a probe that can not yield vapor maintains the vacuum and pulls the plunger entirely back into battery.

Once all of the sample connections were complete, the soil gas probes were allowed to equilibrate for an additional 20 minutes. Then, to purge the soil gas probes before sampling, soil gas was withdrawn from the Teflon® tubing using the 50 mL syringe connected via a shut-off valve. To be consistent with prior sampling events[4], the first three dead volumes of soil gas were discarded to purge the sample tubing and the sand pack surrounding the filter tip.[5] The syringe was filled at a rate not exceeding 200 mL/min. This was accomplished by limiting the purging to a 15-second fill time for a 50-mL syringe. After purging, the initial vacuum in each Summa™ canister was recorded. The soil gas samples were then collected in Summa™ canisters until the vacuum gauge read approximately five inches of mercury (in-Hg) or less.[6]

Leak-checking was conducted using 1,1-difluoroethane (1,1-DFA) gas during sampling at all sample probe locations. Liquid phase 1,1-DFA was applied to two paper towels by spraying with the 1,1-DFA can inverted. One of the 1,1-DFA-soaked towels was placed at the top of the soil gas probe inside the soil gas probe monument, and the other was placed inside of the clear plastic shroud containing the Summa™ canister and all sample connections. After opening the valve of the Summa™ canister to start sampling, a final "puff" of 1,1-DFA spray was applied within the clear plastic shroud as an additional leak-check measure.

To confirm the adequacy of the leak-check atmosphere, a sample of the leak-check atmosphere within the clear plastic shroud was collected during sampling of the 15-foot probe at SG-028J-36 and a sample from the atmosphere at the top of the soil gas probe was collected during sampling of the 10-foot probe at SG-208J-29. A field blank of ambient air during sampling was also collected for comparison to samples collected beneath the shroud and near the sample probe. All of the leak-check atmosphere samples were collected in 1-liter Tedlar bags connected by Teflon® tubing to an SKC, Inc. Grab Air Bag Sampler (CAT. No. 222-2301).

Field QC samples consisted of one trip blank and one duplicate sample collected for each day of sampling. All samples were collected in laboratory-supplied Summa™ canisters and were labeled with a unique sample name, sample time, initial and final vacuum readings. All soil gas samples and field QC samples were submitted to Calscience Laboratories, Inc., of Garden

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[4] A purge volume test was previously conducted at the beginning of the project and it was determined and recommended that three purge volumes were appropriate. This recommendation was later approved by the DTSC in the approved work plans for soil gas testing. Table 4a in the Final Remedy Completion Report (ENVIRON, November 2008) presents the results of the purge volume test.

[5] The purge volume is estimated as follows: 0.187" inside diameter Teflon® tubing has an internal volume of approximately 5.4 mL/foot. The volume of the filter pack (cylinder) is calculated as: $V=3.14r^2 h$, where h is the height of filter pack, r is radius of borehole. For a 2.125 inch diameter borehole, r=1.06inches = 2.699 cm. For one foot sand pack, h=12inches = 30.48 cm. $V = 3.14(2.699cm)^2 * (30.48cm)$. $V = 697.2\ cm^3 = 697.2$ mL. Assume 30% porosity for sand pack. V = 0.30*697.2mL = 210 mL/ft. So depending on depth: 1 Purge Volume = 5.4 mL/ft *(tubing length in feet) + 210mL.

[6] During the sampling of the 15-foot probe at SG-028J-27 on December 23rd 2008, the vacuum gauge on the Summa™ canister would not read below -8 in. Hg. It was determined that the canister contained a sufficient sample, so the canister valve was closed and sampling stopped at that point. However, during packaging the sample, the gauge was observed to read -3 in. Hg indicating a leak had occurred, or more likely, that the gauge was sticking. The anomaly was noted, but the probe was not re-sampled since a sample had been collected on the previous day. In consultation with Buck King of DTSC, the sample was sent for analysis and the laboratory notified of the problem with the gauge.

Grove, California under chain-of-custody protocol for analysis of volatile organic compounds (VOCs) by USEPA Method TO-15.

3.3 Soil Gas Sampling Results

The soil gas chloroform results for December 2008 are summarized in Table 4 and shown on Figure 2. The soil gas analytical reports for the December 2008 sampling are included in Appendix B. Figure 2 includes intra-remediation (September and November 2007) and post-remediation (August, October, and December 2008) sampling results. As noted earlier, locations SG-028J-38 and SG-028J-39 are new locations, and therefore, were not sampled previously. As shown in Table 4, all soil gas samples taken at five, 10 and 15 feet bgs are below their DTSC-approved RBTCs. There were no previously approved RBTCs for depths greater than 15 feet bgs, however, all detections at depths greater than 15 feet bgs are below the DTSC-approved RBTC for 15 feet.

As also shown in Table 4, in addition to chloroform, a number of other VOCs were detected at low concentrations. This has been true throughout the soil gas sampling investigations for the former Building 028J area. To put the detected concentrations into perspective, the concentrations were compared to RBTCs, or for chemicals with no previously calculated RBTC, to the SFRWQB Environmental Screening Levels (ESLs) for soil gas. The ESLs listed in Table 4 correspond to the shallow soil gas screening levels for evaluation of vapor intrusion concerns using DTSC attenuation factors under a residential exposure scenario (SFRWQCB 2008). This is a conservative basis to use for comparison, as these ESLs are intended for a depth of five feet bgs and do not take into account site-specific soil properties. All detected chemicals are well below their corresponding RBTC or ESL.

The leak detection compound (1,1-DFA) was detected at low to trace levels in approximately half of the soil gas samples (see Table 4). Two samples contained 1,1-DFA above 1.0 µg/L (location SG-028J-29 at five feet and SG-028J-38 at 23 feet, with measured concentrations of 1.3 and 4.5 µg/L, respectively). The vast majority of positive detections of 1,1-DFA were less than 0.1 µg/L.

4 ANALYSIS OF GROUNDWATER AND SOIL GAS DATA

4.1 Groundwater

Comparison of the groundwater tests for chloroform performed in August, October and December 2008 demonstrate that:

- The concentration of chloroform initially stabilized upon shut-down of the remediation system in August 2008 at levels well below the RBTCs; and

- Chloroform concentrations then began to decline on average as the water table (i.e. the A-Aquifer) was recharged with cleaner groundwater from seasonal natural infiltration and/or artificial recharge.

Upon sampling of the 16 extraction/monitoring wells in the vicinity of the former Building 028J area in August 2008 (shortly after the remediation system was shut down), the level of groundwater remaining in the A-Aquifer was observed to be low, with a typical depth to groundwater of about 31 feet bgs (consistent with a saturated water table zone on the order of 3-4 feet thick). This observation was consistent with the seasonal low water levels that have typified the Site at the end of the dry season in late Summer/early Fall. The concentrations of chloroform in the A-Aquifer in the former Building 028J area at that same time ranged from less than 10 to 320 µg/L in August 2008. All wells in the former Building 028J area exhibited chloroform concentrations in groundwater at less than the DTSC-approved groundwater RBTC of 380 µg/L. Only three wells (EW-5, EW-10, and EW-16) exhibited concentrations of more than 100 µg/L (actual concentrations were 140, 210, and 320 µg/L, respectively). These wells are all located along the northeast wall and near the eastern corner of former Building 028J area (see Figure 1).

Upon retesting of the monitoring well network in October 2008, the groundwater elevation rose slightly (approximately 0.5 to 0.8 feet) and the concentrations of chloroform decreased slightly from the conditions observed in August 2008: the average concentration of chloroform in the area above 80 µg/L (as of the August measurements) declined slightly from 163 µg/L to 160 µg/L. With respect to the other wells at the Site, Table 5 presents a comparison of average and range of chloroform concentrations in August and October 2008 for the following A-Aquifer wells: EW-4, EW-5, EW-6, EW-9, EW-10, EW-13, EW-14 and EW-16. There is also little variability in chloroform concentration in these wells between August and October. These slight variations in concentration likely represent normal variability in groundwater sampling results, since only a slight rise in the water table had occurred prior to the October sampling event.

By December 2008, the water table was observed to rise approximately three feet (to about 28 feet bgs) from the August 2008 low, thereby approximately doubling the thickness of the saturated zone in the A-Aquifer by the inflow of seasonal recharge. In the process of this water table rise, the concentrations of chloroform in the A-Aquifer as reported in groundwater samples from the monitoring wells demonstrably declined. Again focusing on the three wells with the highest chloroform concentrations (i.e. EW-5, EW-10, and EW-16), chloroform declined to 91, 83, and 140 µg/L respectively by December 2008; representing reductions in concentrations of 35 to 60 percent as compared to August 2008 for these more contaminated wells. This decline in chloroform concentrations is consistent with the amount of dilution that would be expected as

the thickness of the water table doubled over this same period, indicating that as the water table rose, little additional chloroform mass was being added to the water table. With respect to the other wells at the Site, Table 5 presents a comparison of average and range of chloroform concentrations in August, October and December 2008 for the following A-Aquifer wells: EW-4, EW-5, EW-6, EW-9, EW-10, EW-13, EW-14 and EW-16. The average concentration of chloroform in these wells in December 2008 is 72 µg/L, which is a demonstrable decline from the average of 116 and 117 µg/L in August and October 2008. Accordingly the following conclusions can be drawn:

- Upon remediation system shutdown, little chloroform remained in the pore water of the vadose zone above the water table;
- The seasonal inflow of "fresh" water to the water table contained little chloroform mass; and,
- The rising water table in response to seasonal recharge is reducing the average concentration of chloroform over the entire water table thickness.[7]

These observations contradict any assertions or conclusion that there is a "continuing source" of chloroform in the vadose zone or aquifer that will maintain elevated concentrations of chloroform at or above RBTC levels over the long term.

The decline of chloroform concentrations with a rising water table does not necessarily imply, however, that the concentration of chloroform across the entire thickness of the water table is uniform; nor does it mean that chloroform concentrations are necessarily lower in December 2008 at all levels of the A-Aquifer as compared to concentrations previously observed in August or October 2008. Groundwater flow is laminar, with little turbulent mixing occurring outside of the immediate proximity to a well screen and gravel pack. It appears that as relatively cleaner groundwater has recharged the water table over the past few months, it has formed a shallower, "cleaner" layer of water, overlying a second layer with somewhat higher concentrations at/near the base of the water table zone, as was observed in August and October 2008.[8] When these two different layers of water are drawn into a monitoring well during sampling, they are then mixed, thereby reflecting a "vertical average" of the condition of the entire water table zone. Over time these two layers of somewhat different water quality in the water table will gradually mix by diffusion and by the downward flow[9] of water through the A-Aquifer into the underlying A/B Aquitard. The net result of these mixing processes will be a progressive reduction of concentrations of chloroform in the water table zone (most likely exhibited by demonstrable

[7] Although the implicit concentration of chloroform in the water recharging the aquifer will vary from well to well when comparing the October and December 2008 test results, the estimated concentration of chloroform in the recharging water generally ranges from 10-40 µg/L in most instances. This range is also consistent with the amount of chloroform that is currently present at the top of the capillary fringe as can be inferred from the deep soil gas tests.

[8] This interpretation is also consistent with the low soil gas concentrations of chloroform measured just above the capillary fringe in December 2008 as discussed more fully below.

[9] Water level measurements documented in Table 15 of the Final Remedy Completion Report (ENVIRON, November 2008) demonstrate a consistent downward gradient between the A- and B-Aquifer beneath the Site.

steps downward in concentration, coinciding with periods of seasonal recharge, rather than a steady rate of decline throughout the entire year) and over time a loss of chloroform mass to the A/B Aquitard and underlying B-Aquifer.

The only monitoring well in which chloroform concentrations significantly increased in December 2008 was EW-17, a well that is screened approximately five feet into the A/B Aquitard, with the screen extending only a few inches into the overlying A-Aquifer. Chloroform in this well in December 2008 was reported to be 560 µg/L, up from 160 µg/L in August 2008. As stated above, well EW-17 is constructed in the area of the A/B Aquitard where chloroform concentrations were the highest measured in aquitard soil samples. During sampling in December 2008, this well was very slow to recharge, indicating that water was primarily draining from the aquitard rather than from the overlying aquifer. The higher concentrations of chloroform in this well, therefore, likely represent the condition of the pore water in the aquitard, rather than the concentration in groundwater in the overlying aquifer. This conclusion is supported by the observation that two nearby A-Aquifer wells (EW-5 and EW-16, both located within 10-15 feet of EW-17) reported much lower concentrations of chloroform (91 and 140 µg/L) in the same sampling round.

As was explained and demonstrated in the *Chloroform Mass Estimates and Projected Future Groundwater Conditions Report* (the "Modeling Report") (ENVIRON, August 2008) and the Final Remedy Completion Report (ENVIRON, November 2008), the mass of chloroform remaining in the A/B Aquitard will be gradually dissipated by the downward drainage of water from the overlying A-Aquifer. It is clear from an examination of the groundwater data from December 2008, however, that the seasonal rebound of the water table does not cause water in the Aquitard to drain upward into the shallower A-Aquifer, thereby causing a rebound of chloroform concentrations. Indeed, as the water table has recovered in the Fall, chloroform concentrations in the A-Aquifer on average have declined (consistent with a process of periodic, seasonal flushing) and remain well below the DTSC-approved RBTCs for groundwater. It is, therefore, highly unlikely that chloroform concentrations in the A-Aquifer would rebound to a degree that would cause them to approach, much less exceed, the RBTC of 380 µg/L in the future.

4.2 Soil Gas

A comparison of shallower (i.e. at five and 10 feet bgs) soil gas test results for chloroform from October and December 2008 indicate that soil gas concentrations over this period have been generally stable. Concentrations for individual sample locations have exhibited either slight declines and/or increases in the range of up to about 0.2 µg/L over this sampling record. An examination of the sampling results for location SG-028J-27 at five, 10 and 15 feet bgs (see Figure 2) in December 2008[10], indicates that a normal sampling variability of $\pm$ 0.2 µg/L is to be expected at any location in a sampling round when the underlying concentration of chloroform has not significantly changed. In light of this inherent sampling variability, the data from October to December 2008 demonstrate soil gas concentrations which are essentially stable and do not exhibit any demonstrable longer term trend.

[10] This location was sampled twice on succeeding days (December 22nd and 23rd, 2008).

All concentrations of chloroform measured in soil gas at five, 10, and 15 feet bgs in December 2008 are well below the DTSC-approved soil gas RBTCs of 1.1, 1.9 and 8.9 µg/L, respectively. The highest chloroform concentration in shallower soil gas in December 2008 (0.95 µg/L at 10 feet at location SG-028J-29) is approximately 50 percent of the DTSC-approved RBTC.

Soil gas concentrations at 15 and 23-25 feet bgs were measured for the first time in December 2008. This information was intended to provide chloroform soil gas data from the silty-clay layer at 12 to 23 feet bgs in the vadose zone[11], and data on the equilibrium concentrations that may exist with groundwater immediately above the capillary fringe. Chloroform concentrations in soil gas at 15 feet are well below the DTSC-approved RBTC of 8.9 µg/L and are generally within the lower end of the range measured in the shallower (five and 10 feet bgs) samples at the same location, with one notable exception at location SG-028J-38 where the concentration at 15 feet (0.76 µg/L) was approximately twice the concentration at 10 feet (0.34 µg/L).[12] These findings demonstrate that the remaining chloroform mass in the silty-clay layer is not a significant source that would cause concentrations of chloroform in shallower soils (i.e. at five and 10 feet) to increase in the future.

The deeper soils at 15 feet bgs are more clay-rich, and hence tend to retain greater amounts of water. As soils become wetter (all other parameters being equal and the mass of chloroform remaining constant) chloroform mass will preferentially partition into a water phase and soil gas concentrations should decline somewhat as the soils become wetter. This may explain in part why the chloroform concentrations at some locations are lower at 15 feet than in the shallower 10 foot samples, which were collected from silty-sand soils that more readily drained, and have a higher air-filled porosity.

Concentrations of chloroform in the deepest soil gas samples, targeting a depth just above the water table[13], were generally low, and in the range of 1.2 to 2.5 µg/L along the northeast wall of former Building 028J area, where groundwater concentrations of chloroform are known to be highest. Assuming a Henry's law coefficient of 0.12, these soil gas concentrations are consistent with a chloroform concentration in groundwater of 10-20 µg/L, considerably less than measured in nearby monitoring wells. Because soil gas just above the capillary fringe is going to more accurately reflect the concentration of chloroform at the top of the water table (as opposed to a vertical average concentration across the entire water table as measured in a monitoring well), the low concentrations of chloroform measured in the deep soil gas samples appear to reflect the fact that the water table has been recharged in a manner that has resulted in a "cleaner" layer of ground water overlying a more contaminated layer at depth. This seasonal stratification of the water table will tend to reduce the diffusion of chloroform from the deeper portion of the water table, thereby lessen the eventual impact on chloroform concentrations in the overlying vadose zone soils.

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[11] This layer may represent a zone of residual chloroform that was not completely flushed from the vadose zone during remediation due to it high water content and low air filled porosity.

[12] The low measured concentrations in soil gas are not inconsistent with the previously finding that chloroform in bulk soil samples were all reported as non-detect, with a detection limit of approximately 4.5 µg/kg. At this detection limit, a soil gas equilibrium concentration of up to 1.9 µg/L might have been expected.

[13] At the time of the December 2008 measurements the water table was at about 28 feet bgs.

Although the DTSC has not formally approved a RBTC for soil gas at 23 feet, the concentrations measured at this level are none-the-less much less than the DTSC-approved RBTC for 15 feet (8.9 µg/L). Furthermore, soil gas modeling presented by ENVIRON to DTSC at a recent meeting in Sacramento[14], demonstrated that the concentration of chloroform is almost entirely dissipated across the wet silty-clay layer that forms the middle portion of the vadose zone from 12-23 feet across the Site. It is highly unlikely, therefore, that the low concentrations of chloroform measured at depths of 23 to 25 feet bgs in soil gas would pose any risk to public health from soil gas migration.

Taken in their entirety, the vadose zone data indicate that a low amount of chloroform mass remains in the vadose soils following the shut-down of remediation and there are no significant spatial trends in chloroform concentrations over the vertical extent of the vadose zone. Moreover, the sampling grid over which the soil gas samples were taken is very tight, approximately 20 to 25 feet apart. Therefore, there is no evidence of a long-term source of chloroform mass in the vadose zone that could diffuse outward to materially increase concentrations in adjoining (shallower or deeper) layers and it is ENVIRON's scientific judgment that soil gas concentrations will not exceed the DTSC-approved RBTCs in the future. In this respect, the current concentrations of chloroform in soil gas have reached a stable or near-term "steady-state" condition. Over the longer term, however, concentrations of chloroform in soil gas and groundwater should decline as chloroform mass is lost by gradual venting to the atmosphere and flushing into deeper aquifer zones with seasonal recharge.

4.3 Leak Detection Results

Over the course of the soil gas monitoring program, 1,1-DFA was used as a leak detection compound to detect for any significant leakage of ambient air into the sampling equipment that could affect reported soil gas results. All concentrations of 1,1-DFA were below the DTSC-prescribed maximum reporting limit of 10 µg/L[15] when this compound is used as for leak detection. None-the-less, very low concentrations of 1,1-DFA were detected in approximately one-half of the soil gas samples. The maximum detection of 1,1-DFA was 4.5 µg/L, and most detections were less than 0.1 µg/L, with a minimum detection limit of approximately 0.008 µg/L. The source of the 1,1-DFA in the soil gas samples (i.e. whether from leakage or cross contamination of sampling equipment) can not be readily determined from the test results, but the absence of 1,1-DFA in the laboratory method blanks indicates the 1,1-DFA was introduced in the field, not in the laboratory.

To provide some context for the detection of DFA in the field samples it is important to recall that at DTSC's request, 1,1-DFA was used in generous amounts during the December 2008 test program, including the use of a shroud over the sampling equipment to maintain the leak detection environment. Two measurements of 1,1-DFA in ambient air during the sampling

[14] This modeling was performed using actual properties of the vadose zone soils as established by the on-site investigations to develop an RBTC for deeper soil gas at 25 feet (just above the capillary fringe) and groundwater, assuming the water table remains in the range of 27-31 feet bgs as has been the case over the past two years of investigation. The estimated RBTC for deeper soil gas was well above the RBTC of 8.9 µg/L for 15 feet bgs.

[15] Section 2.7.3A of the *Advisory – Active Soil Gas Investigations* (DTSC and LARWQCB 2003) recommends that the detection limit for leak detection compounds be 10 µg/L or less.

program (one collected inside a shroud placed over the Summa™ canister and the other at the ground surface inside the probe monument, which is the protective casing that surrounds the sample tubing) reported ambient concentrations of 28,000 and 2,600 µg/L, respectively (see sample numbers ATMLC-2 and -3 in Table 4). A comparison of these ambient measurements to the maximum test results in soil gas samples indicate a worse-case "dilution factor" of 1.7 x 10^{-3} or 1.6 x 10^{-4}, as compared to the reported ambient air concentrations. At these minute levels of dilution, even assuming that the source of 1,1-DFA was the leakage of air into the sample from the sample tubing or around the surface seal, the effect on the reported result would be so slight as to adjust only the third or fourth significant digit in the reported results.

The minimal effect of dilution by any leakage of ambient air on the soil gas results is also demonstrated by the fact that the measured chloroform concentrations at the two locations where 1,1-DFA were greater than 1.0 µg/L (locations SG-028J-29 at five feet and SG-028J-38 at 23 feet) reported chloroform concentrations that were in the same range as were reported in other nearby samples from the same soil horizon. If leakage of ambient air had been significant, chloroform readings in these two instances would have been expected to be much lower than surrounding samples. It is highly unlikely, therefore, that the leakage of air into the sampling train, as reflected by the presence of 1,1-DFA had any material impact on the reported results for chloroform.

5 CONCEPTUAL SITE MODEL

The CSM for the former Building 028J area is based on the assumption that chloroform was historically released into shallow soils and eventually migrated with seasonal recharge, or alternatively by the drainage of contaminated liquids, through the vadose zone soils into the deeper A-Aquifer and A/B Aquitard. The amount of chloroform remaining in soils and groundwater has been materially reduced by the operation of the 2-Phase™ Extraction remediation system in 2007/2008, but a small residual of chloroform remains today in the vadose zone soils, and in the underlying Aquifer and A/B Aquitard, which will be gradually depleted by natural venting to the atmosphere and seasonal flushing. The potential for exposure to chloroform in the former Building 028J area is based on the direct contact with contaminated soils or inhalation of chloroform as a gas which migrates into overlying structures via soil gas migration. The use of on-site shallow groundwater has been precluded by a deed restriction, so direct exposure to chloroform in a drinking water or irrigation supply has been institutionally precluded.

Testing of vadose zone soils in the former Building 028J area during the latter stages of the remediation program demonstrated that the concentration of chloroform in bulk soil samples was very low, with all soil samples above 20 feet bgs reporting chloroform concentrations as non-detect at a detection limit of approximately 4-5 µg/kg. These test results have been previously documented to the DTSC in the Final Remedy Completion Report (ENVIRON, November 2008). The RBTC for direct contact to chloroform in soils is 8.7 µg/kg, so these test results demonstrate that the direct contact pathway is no longer a concern.

Chloroform was detected, however, in deeper soils in the A-Aquifer and the A/B Aquitard. Based on the demonstrably higher concentrations of chloroform measured in bulk soil samples in the A/B Aquitard in the April/May 2008[16] (average of 184 µg/kg), as compared to the much lower concentrations measured in the A-Aquifer and seasonal capillary fringe (average of 23 µg/kg in the aquifer), and the absence of detections in soils from the shallower vadose zone, it is apparent that the principal mass of chloroform remaining at the Site today is in the A/B Aquitard. Because this aquitard is below the water table, and hence the soils therein are fully saturated, this chloroform mass is either dissolved in pore water or adsorbed to organic carbon in the aquitard soils.

The net movement of regional groundwater beneath the Site is downward towards the B-Aquifer, as is demonstrated by water level measurements across the Hitachi Site. The measurements of water levels and hydraulic conductivities for soils in the A–Aquifer and the aquitard indicate that the rate of drainage of water from the overlying A-Aquifer into the aquitard in the former Building 028J area is sufficiently high to prevent an upward diffusion of chloroform from the aquitard into the A-Aquifer. Modeling presented in the Modeling Report (ENVIRON, August 2008) demonstrates that this mass of chloroform will slowly migrate downward, causing a small increase in the chloroform concentrations in groundwater in the underlying B-Aquifer, to levels that will remain below the SFRWQCB action level of 80 µg/L for drinking water. Also, because the A/B Aquitard is, throughout the year, below the overlying water table, chloroform in

[16] See Table 6 in the Final Remedy Completion Report (ENVIRON, November 2008).

the aquitard cannot serve as a source for chloroform in soil gas migrating into shallower vadose zone soils.

A smaller residual mass of chloroform also remains in the overlying A-Aquifer, dissolved in groundwater and adsorbed to soils below the seasonal water table. While exposure to this chloroform has been limited by deed restrictions on groundwater use, it does serve as a minor source of chloroform to soil gas into the overlying deep vadose zone. The chloroform in the A-Aquifer is being gradually diluted and flushed with the seasonal recharge of cleaner groundwater.

Groundwater and soil gas data collected in December 2008 during a period of seasonal recharge indicated that this recharge mechanism operates in a manner such that the more contaminated groundwater in the water table zone likely remains near the bottom of this unit (i.e. near the contact with the A/B Aquitard), with a somewhat cleaner layer of groundwater overfilling the A-Aquifer from above. As a result, the impact of the chloroform in the A-Aquifer on the concentration in soil gas in the overlying vadose zone is mitigated in part by the seasonal recharge of this cleaner groundwater layer. Based on the very long time-frames (potentially years) for chloroform to migrate by diffusion as a soil gas from the water table at 25-30 feet to shallow soils at five to 10 feet bgs, and the significant mitigation of the chloroform gradient that occurs across the wet silty-clay layer in the middle of the vadose zone, it is ENVIRON's scientific judgment that the chloroform remaining in groundwater in the A-Aquifer will not be and cannot be a material source of chloroform in shallower soil gas (i.e. above 15 feet bgs) in the future.

A very small residual mass of chloroform also likely remains in the vadose zone soils, at concentrations too small to be detectable in bulk soil samples, but sufficient to cause detectable amounts in soil gas, which can be measured at much lower concentrations. This mass appears to be the source of chloroform that continues to be detected in shallow soil gas samples at five, 10, and 15 feet bgs in the October and December 2008 testing programs.

Soil gas measurements in October 2008 confirmed that the concentrations of chloroform in shallow soils are well below the DTSC-approved RBTCs. The subsequent measurements in December 2008 demonstrate that the concentrations in shallow soils are currently stable, and there are no demonstrable deeper zones of higher chloroform concentrations that will cause chloroform to migrate into shallower, near-surface soils, increasing the chloroform concentrations in shallow soil gas in the future. It is highly unlikely, therefore, that chloroform soil gas concentration in the vadose zone soils would ever increase in the future to concentrations that are above RBTCs. The residual mass of chloroform in the vadose zone, therefore, poses no practical concern for exposure via the soil gas migration/inhalation pathway. This chloroform mass will be gradually reduced over a period of years by venting into the atmosphere or flushing into the A-Aquifer with season recharge.

6 SUMMARY/CONCLUSIONS

This report documents the groundwater and soil gas sampling activities that were completed in December 2008 to evaluate the presence of chloroform in the subsurface near former Building 028J. In the CMS Report (ENVIRON, August 2007), 2-PHASE™ Extraction was identified as the selected corrective action for remediating chloroform in the former Building 028J area. Full-scale operation of 2-PHASE™ Extraction in the area began in July 2007 and was discontinued in August 2008.

As documented in the Final Remedy Completion Report (ENVIRON, November 2008), groundwater, soil gas, and soil sampling were conducted in the former Building 028J area prior to remediation, during or intra-remediation, and post-remediation. Prior post-remediation groundwater and soil gas sampling was conducted in August 2008 and October 2008. In consultation with the DTSC, Hitachi GST undertook in December 2008 an additional round of post-remediation soil gas and groundwater sampling at the former Building 028J area to confirm the continued attainment of DTSC-approved correction action objectives.

The CSM for exposure to chloroform in the former Building 028J area is based on the direct contact with contaminated soils or inhalation of chloroform as a gas which migrates into overlying structures via soil gas migration. The use of on-site shallow groundwater has been precluded by a deed restriction, so direct exposure to chloroform in a drinking water or irrigation supply has been institutionally precluded.

Testing of vadose zone soils in the former Building 028J area during the latter stages of the remediation program demonstrated that the concentration of chloroform was very low, with all soil samples above 20 feet bgs reporting chloroform concentrations as non-detect at a detection limit of approximately 4-5 µg/kg. The RBTC for direct contact to chloroform in soils is 8.7 µg/kg, so these test results demonstrate direct contact pathway is no longer a concern. Chloroform was detected, however, in deeper soils in the A-Aquifer and the A/B Aquitard.

On December 19 and December 22, 2008, groundwater samples were collected from eight A-Aquifer groundwater wells (EW-4, EW-5, EW-6, EW-9, EW-10, EW-13, EW-14, and EW-16) and two groundwater wells screened in the A/B Aquitard (EW-17 and EW-18). Results from the A-Aquifer wells showed that detections of chloroform are all below the DTSC-approved RBTC of 380 µg/L. Only three wells remain above the SFRWQCB action level of 80 µg/L for drinking water (EW-5 at 91 µg/L, EW-10 at 83 µg/L, and EW-16 at 140 µg/L). The average concentration of chloroform in the eight A-Aquifer groundwater wells sampled in December 2008 was 72 µg/L.

On December 22 and December 23, 2008, semi-permanent soil gas probes were installed in seven locations. Depths sampled included approximately five, 10, 15 and 23-25 feet bgs. The seven soil gas sampling locations include five previously sampled locations (SG-028J-27, SG-028J-29, SG-028J-30, SG-028J-33, and SG-028J-36) as well as two new locations (designated SG-028J-38 and SG-028J-39). Results from the soil gas sampling showed that all soil gas samples taken at five, 10 and 15 feet bgs are below their DTSC-approved RBTCs for chloroform. There were no previously approved RBTCs for the lower depths; however, all detections at depths greater than 15 feet bgs are below the DTSC-approved RBTC for chloroform at 15 feet.

The tests results in December 2008 have confirmed that the concentrations of chloroform in soil gas in the vadose zone are stable and remain well below the DTSC-approved RBTCs. These chloroform concentrations should gradually decline as chloroform in soil gas is vented to the atmosphere or is flushed into deeper soil horizons with seasonal recharge. Also with the onset of the seasonal recharge of the water table, the concentrations of chloroform in groundwater, as measured in on-site monitoring wells, has begun to decline, consistent with the natural flushing process that will eventually remove the remaining chloroform from the shallow aquifer. These data demonstrate that the cleanup of the former Building 028J area has achieved the requirements specified by the DTSC for final Site closure.

In summary, the December sampling results discussed in this report confirm that the remediation of the former Building 028J area has achieved the requirements specified by DTSC for final Site closure. The data also confirm the material conclusions of the Final Remedy Completion Report (ENVIRON, November 2008):

1. The overall CAO has been met, as have the specific CAOs for soil and soil vapor and the RBTCs for groundwater.

2. The drinking-water-based specific CAO for groundwater to achieve 80 µg/L of chloroform in groundwater “to the extent practicable” has been met.

3. Extraction system shutdown criteria have been met. Chloroform mass removal rates reached an asymptotic level during continuous and pulsed modes so that continued operation of the extraction system is no longer justified. Three rounds of post-remedial monitoring confirm that the levels of chloroform in soil gas and groundwater are not expected to rebound to levels approaching, let alone exceeding, RBTCs.

4. There is no continuing source of chloroform that would result in a material increase in chloroform concentrations over the long term.

5. It is not feasible to remove the residual amount of chloroform which remains bound in the A/B Aquitard. Furthermore, it is not necessary to remove this residual mass of chloroform in the aquitard because it does not significantly affect the chloroform concentrations in either the A-Aquifer or the B-Aquifer.

6. There is no remaining unacceptable risk to human health. Chloroform concentrations are below the RBTCs for potential vapor migration, and there is a deed restriction that prevents use of shallow groundwater for drinking water, eliminating the risk of future residents being exposed to the limited occurrence of groundwater with chloroform concentrations above 80 µg/L.

7 REFERENCES

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Tables

TABLE 1: SUMMARY OF CHLOROFORM RESULTS IN A-AQUIFER GROUNDWATER WELLS
Former Building 028J Area
Hitachi Global Storage Technologies, Inc.
5600 Cottle Road, San Jose, California

Well ID	Sample Date	Chloroform Concentration (ug/L) [1, 2]
Lowest Residential RBTC [3]		*380*
RWQCB-SF Cleanup Standard [4]		*80*
EW-1	05/08/2007	**49**
	09/12/2007	**15**
	11/06/2007	**15**
	01/24/2008	**19**
	02/28/2008	**17**
	04/01/2008	**17**
	05/08/2008	**14**
	08/13/2008	**9.1**
	10/13/2008	**11**
EW-2	05/08/2007	**95**
	09/12/2007	**31**
	11/07/2007	**28**
	01/24/2008	**22**
	02/28/2008	**19**
	04/01/2008	**17**
	05/07/2008	**21**
	08/13/2008	**7.6**
	10/14/2008	**8.9**
EW-3	05/07/2007	**2.0**
	09/12/2007	**2.2**
	11/06/2007	<1.0
	01/24/2008	<1.0
	02/28/2008	**1.1**
	04/02/2008	<1.0
	05/08/2008	<1.0
	08/12/2008	<1.0
	10/13/2008	<1.0
EW-4	05/08/2007	**520**
	09/12/2007	**180**
	11/07/2007	**87**
	11/07/2007 [5]	**87**
	01/23/2008	**81**
	02/27/2008	**62**
	04/01/2008	**55**
	05/07/2008	**61**
	06/05/2008	**48**
	07/09/2008	**49**
	07/09/2008 [5]	**50**
	08/13/2008	**53**
	10/14/2008	**74**
	12/22/2008	**61**

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Well ID	Sample Date	Chloroform Concentration (ug/L) [1, 2]
Lowest Residential RBTC [3]		*380*
RWQCB-SF Cleanup Standard [4]		*80*
EW-5	05/09/2007	**870**
	09/13/2007	**460**
	09/13/2007 [5]	**470**
	11/07/2007	**180**
	01/23/2008	**330**
	02/27/2008	**240**
	03/03/2008 [6]	**160**
	04/01/2008	**210**
	05/07/2008	**380**
	06/04/2008	**320**
	07/10/2008	**190**
	08/14/2008	**140**
	10/15/2008	**150**
	12/19/2008	**91**
EW-6	05/08/2007	**130**
	09/12/2007	**100**
	11/07/2007	**87**
	01/23/2008	**76**
	02/27/2008	**57**
	04/01/2008	**55**
	05/08/2008	**29**
	06/04/2008	**25**
	07/09/2008	**18**
	08/13/2008	**17**
	8/13/2008[5]	**16**
	10/14/2008	**22**
	12/22/2008	**33**
EW-7	05/07/2007	**5.9**
	09/12/2007	**3.8**
	11/06/2007	**3.4**
	01/24/2008	**3.5**
	02/28/2008	**3.1**
	04/02/2008	**3.4**
	04/02/2008 [5]	**3.5**
	05/08/2008	**3.1**
	08/12/2008	**1.7**
	8/12/2008[5]	**1.8**
	10/13/2008	**1.8**
	10/13/2008[5]	**1.9**

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Former Building 028J Area
Hitachi Global Storage Technologies, Inc.
5600 Cottle Road, San Jose, California

Well ID	Sample Date	Chloroform Concentration (ug/L) [1, 2]
Lowest Residential RBTC [3]		*380*
RWQCB-SF Cleanup Standard [4]		*80*
EW-8	05/08/2007	**12**
	05/08/2007 [5]	**12**
	09/12/2007	**3.1**
	11/06/2007	**1.1**
	01/24/2008	**2.9**
	02/28/2008	**1.9**
	04/02/2008	**1.6**
	05/07/2008	**1.1**
	08/12/2008	<1.0
	10/13/2008	<1.0
EW-9	05/09/2007	**920**
	09/12/2007	**530**
	11/07/2007	**280**
	01/23/2008	**310**
	03/03/2008 [6]	**210**
	04/01/2008	**210**
	05/07/2008	**220**
	05/07/2008 [5]	**230**
	06/05/2008	**130**
	07/09/2008	**120**
	08/13/2008	**62**
	10/14/2008	**83**
	12/19/2008	**71**
EW-10	05/09/2007	**550**
	09/12/2007	**690**
	11/07/2007	**430**
	01/23/2008	**240**
	02/27/2008	**300**
	03/03/2008 [6]	**280**
	04/01/2008	**430**
	05/07/2008	**280**
	06/05/2008 [5]	**230**
	06/05/2008	**220**
	07/09/2008	**290**
	08/14/2008	**210**
	10/15/2008	**170**
	12/22/2008	**83**

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Former Building 028J Area
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5600 Cottle Road, San Jose, California

Well ID	Sample Date	Chloroform Concentration (ug/L) [1, 2]
Lowest Residential RBTC [3]		*380*
RWQCB-SF Cleanup Standard [4]		*80*
EW-11	05/08/2007	**56**
	09/13/2007	**26**
	11/06/2007	**15**
	01/23/2008	**20**
	02/27/2008	**21**
	04/01/2008	**21**
	05/08/2008	**17**
	08/13/2008	**7.2**
	10/14/2008	**8.7**
EW-12	05/07/2007	**9.5**
	09/12/2007	**3.2**
	11/06/2007	**3.3**
	01/24/2008	**8.0**
	02/27/2008	**8.4**
	04/02/2008	**5.5**
	05/08/2008	**6.7**
	08/12/2008	**2.2**
	10/13/2008	**2.7**
EW-13	05/09/2007	**350**
	09/12/2007	**190**
	11/07/2007	**120**
	01/23/2008	**110**
	01/23/2008 [5]	**110**
	02/27/2008	**100**
	02/27/2008 [5]	**100**
	04/01/2008	**98**
	05/07/2008	**80**
	06/05/2008	**78**
	07/09/2008	**75**
	08/13/2008	**82**
	10/14/2008	**68**
	12/22/2008	**54**
	12/22/2008 [5]	**54**
EW-14	05/09/2007	**150**
	09/12/2007	**69**
	11/06/2007	**58**
	01/23/2008	**58**
	02/27/2008	**57**
	04/01/2008	**51**
	05/07/2008	**52**
	06/05/2008	**52**
	07/09/2008	**49**
	08/13/2008	**48**
	10/14/2008	**45**
	12/22/2008	**44**

TABLE 1: SUMMARY OF CHLOROFORM RESULTS IN A-AQUIFER GROUNDWATER WELLS
Former Building 028J Area
Hitachi Global Storage Technologies, Inc.
5600 Cottle Road, San Jose, California

Well ID	Sample Date	Chloroform Concentration (ug/L) [1, 2]
Lowest Residential RBTC [3]		*380*
RWQCB-SF Cleanup Standard [4]		*80*
EW-15	05/08/2007	**3.5**
	09/12/2007	**2.4**
	11/06/2007	**2.8**
	01/24/2008	**3.4**
	02/28/2008	**2.3**
	04/02/2008	**2.8**
	05/08/2008	**3.3**
	08/12/2008	**2.5**
	10/13/2008	**2.9**
EW-16 [7]	04/02/2008	**200**
	05/07/2008	**370**
	06/04/2008	**500**
	07/10/2008	**380**
	08/14/2008	**320**
	10/15/2008	**330**
	10/15/2008 [5]	**320**
	12/19/2008	**140**

Notes:

[1] Results shown in micrograms per liter (ug/L).

[2] Samples analyzed by TestAmerica, Inc. (formerly STL-San Francisco) of Pleasanton, California by USEPA Method 8260B.

[3] Lowest Risk-Based Target Concentrations (RBTCs) for residential land use as presented in the Final Remedy Completion Report for the Redevelopment Property (*Source: Final Remedy Completion Report, Redevelopment Property, Hitachi Global Storage Technologies, Inc., 5600 Cottle Road, San Jose, California. Prepared by ENVIRON, August, 2007*).

[4] Regional Water Quality Control Board - San Francisco Bay Region (RWQCB-SF) groundwater Cleanup Standard for the A-aquifer (*Source: RWQCB-SF Order No. R2-2002-0082 - Final Site Cleanup Requirements, International Business Machines, Inc., 5600 Cottle Road, San Jose, California, as amended by Order N0. R2-2007-004*).

[5] Duplicate Sample

[6] Sample was collected after re-developing the well to remove accumulated silt/fine sand.

[7] Well constructed on March 31, 2008.

NA = Not Available

< = the analyte was not detected above the reporting limit

Results detected above the reporting limit are shown in **bold**.

TABLE 2: SUMMARY OF CHLOROFORM RESULTS IN A/B AQUITARD EXTRACTION WELLS
Former Building 028J Area
Hitachi Global Storage Technologies, Inc.
5600 Cottle Road, San Jose, California

Well ID	Sample Date	Chloroform Concentration (ug/L) [1, 2]
EW-17 [4]	06/05/2008	**270**
	07/10/2008	**47**
	08/14/2008	**160**
	12/19/2008	**560**
EW-18 [4]	06/05/2008	**320**
	07/10/2008	**150**
	08/14/2008	**75**
	12/19/2008	**36**
	12/19/2008 [3]	**37**

Notes:

[1] Results shown in micrograms per liter (ug/L).

[2] Samples analyzed by TestAmerica, Inc. (formerly STL-San Francisco) of Pleasanton, California by USEPA Method 8260B.

[3] Duplicate Sample

[4] Aquitard extraction well constructed with screen extending three feet deep into aquitard. Well constructed on May 29-31, 2008.

Results detected above the reporting limit are shown in **bold**.

TABLE 3: SOIL GAS PROBE CONSTRUCTION DETAILS
Former Building 028J Area
Hitachi Global Storage Technologies, Inc.
5600 Cottle Road, San Jose, California

Location ID	Boring ID	Borehole Dia. (inches)	Total Depth of Boring (feet bgs)	Proposed Probe Depth [1] (feet bgs)	Installed Probe Depth (feet bgs)	Sand Pack Interval (feet bgs)	Date Installed	Date Sampled
SG-028J-27	A	2.125	15.0	5.0	5.0	4.5 - 5.5	12/22/2008	12/22/2008 [2]
				15.0	15.0	14.5 - 15.5	12/22/2008	12/22/2008 [2]
SG-028J-27	B	2.125	10.0	10.0	9.5	9.0 - 10.0	12/22/2008	12/22/2008 [2]
SG-028J-29	A	2.125	27.0	10.0	10.0	93.5 - 10.5	12/23/2008	12/23/2008
				25.0	23.5	23.0 - 24.0	12/23/2008	12/23/2008
SG-028J-29	B	2.125	15.5	5.0	5.0	4.5 - 5.5	12/23/2008	12/23/2008
				15.0	15.0	14.5 - 15.5	12/23/2008	12/23/2008
SG-028J-30	A	2.125	25.0	10.0	10.0	9.5 - 10.5	12/22/2008	12/23/2008
				25.0	23.0	22.5 - 23.5	12/22/2008	12/23/2008
SG-028J-30	B	2.125	15.5	15.0	15.0	14.5 - 15.5	12/22/2008	No Vapor [3]
SG-028J-30	C	2.125	6.0	5.0	5.5	5.0 - 6.0	12/23/2008	12/23/2008
SG-028J-33	A	2.125	14.2	5.0	5.0	4.5 - 5.5	12/22/2008	12/23/2008
				15.0	13.7	13.2 - 14.2	12/22/2008	12/23/2008
SG-028J-33	B	2.125	25.0	10.0	9.5	9.0 - 10.0	12/22/2008	12/23/2008
				25.0	24.5	24.0 - 25.0	12/22/2008	12/23/2008
SG-028J-36	A	2.125	31.0	10.0	10.0	9.5 - 10.5	12/23/2008	12/23/2008
				Not Proposed [4]	25.5	25.0 - 26.0	12/23/2008	12/23/2008
SG-028J-36	B	2.125	15.5	5.0	5.0	4.5 - 5.5	12/23/2008	12/23/2008
				15.0	15.0	14.5 - 15.5	12/23/2008	12/23/2008
SG-028J-38	A	2.125	25.0	10.0	10.0	9.5 - 10.5	12/22/2008	12/23/2008
				25.0	23.0	22.5 - 23.5	12/22/2008	12/22/2008
SG-028J-38	B	2.125	15.5	15.0	15.0	14.5 - 15.5	12/22/2008	12/23/2008
SG-028J-39	A	2.125	25.0	10.0	9.5	9.0 - 10.0	12/22/2008	12/23/2008
				25.0	23.5	23.0 - 24.0	12/22/2008	12/23/2008
SG-028J-39	B	2.125	14.0	Not Proposed [4]	5.0	4.5 - 5.5	12/22/2008	12/23/2008
				15.0	13.5	13.0 - 14.0	12/22/2008	12/23/2008

Notes:

[1] Probe depth proposed in the Work Plan. Depth adjustments were made based on field observations.

[2] The three probes at location SG-028J-27 were sampled first on 12/22/2008 and were re-sampled on 12/23/2008.

[3] After installation of the 15-foot soil gas probe at location SG-028J-30, sampling was attempted, but a vapor sample could not be pulled from the formation.

[4] Probe at this depth not proposed in the Work Plan. Depth added in the field.

"ID" = identification

"Dia." = Diameter

"feet bgs" = feet below ground surface

TABLE 4: RESULTS OF POST-REMEDIATION SOIL GAS SAMPLING - DECEMBER 2008
Former Building 028J Area
Hitachi Global Storage Technologies, Inc.
5600 Cottle Road, San Jose, California

			Soil Gas Concentration (ug/L)[1, 2, 3]																																
Location ID	**Depth (feet bgs)**	**Sampling Date**	**Acetone**	**Benzene**	**Bromo-dichloro-methane**	**Bromo-form**	**2-Butanone**	**Carbon Disulfide**	**CT**	**Chloroform**	**Chloro-methane**	**Dibromo-chloro-methane**	**1,1-DCA**	**1,1-DCE**	**trans-1,2-DCE**	**Ethyl-benzene**	**Ethyl-toluene**	**Freon 11**	**Freon 12**	**Freon 113**	**2-Hexanone**	**4-Methyl-2-Pentanone**	**MTBE**	**Styrene**	**TBA**	**Toluene**	**PCE**	**1,1,1-TCA**	**1,1,2-Trichloro ethane**	**TCE**	**1,2,4-TMB**	**1,3,5-TMB**	**m,p-Xylene**	**o-Xylene**	**1,1-DFA**
Residential RBTC - 5 feet bgs [4]			*NA*	*0.24*	*NA*	*NA*	*NA*	*NA*	*0.18*	*1.1*	*2.8*	*NA*	*4.9*	*110*	*140*	*3,700*	*NA*	*8,900*	*410*	*54,000*	*NA*	*NA*	*NA*	*NA*	*NA*	*480*	*1.4*	*1,800*	*NA*	*3.8*	*11*	*11*	*1,300*	*1,100*	*Leak*
Residential RBTC - 10 feet bgs [4]			*NA*	*0.41*	*NA*	*NA*	*NA*	*NA*	*0.31*	*1.9*	*4.7*	*NA*	*8.5*	*190*	*240*	*6,400*	*NA*	*16,000*	*720*	*93,000*	*NA*	*NA*	*NA*	*NA*	*NA*	*830*	*2.4*	*3,100*	*NA*	*6.5*	*19*	*19*	*2,200*	*1,900*	*Check*
Residential RBTC - 15 feet bgs [4]			*NA*	*2.0*	*NA*	*NA*	*NA*	*NA*	*1.6*	*8.9*	*24*	*NA*	*42*	*970*	*1,200*	*32,000*	*NA*	*85,000*	*3,800*	*490,000*	*NA*	*NA*	*NA*	*NA*	*NA*	*4,100*	*12*	*16,000*	*NA*	*33*	*94*	*95*	*11,000*	*9,400*	*Compound*
SFRWQCB ESLs - 5 feet bgs [12]			*330*	*----*	*0.069*	*NA*	*520*	*NA*	*----*	*----*	*----*	*NA*	*----*	*----*	*----*	*----*	*NA*	*----*	*----*	*----*	*NA*	*310*	*4.7*	*94*	*NA*	*----*	*----*	*----*	*0.076*	*----*	*----*	*----*	*----*	*----*	*----*
SG-028J-27	5	12/22/2008	**0.13**	**0.024**	<0.0055	<0.0085	**0.074**	**0.045**	<0.0052	**0.13**	<0.0017	<0.0070	<0.0033	**0.0058**	<0.0033	**0.035**	**0.017**	<0.0093	<0.0041	<0.013	**0.020**	**0.71**	<0.012	<0.0070	<0.010	**0.16**	<0.0056	**0.0080**	<0.0045	<0.0044	**0.065**	**0.020**	**0.12**	**0.048**	<0.0089
SG-028J-27	9.5	12/22/2008	**0.055**	**0.0056**	<0.0055	<0.0084	**0.040**	<0.0025	<0.0051	**0.66**	<0.0017	<0.0069	<0.0033	**0.015**	<0.0032	**0.0069**	<0.0040	<0.0092	<0.0040	<0.012	**0.016**	**0.45**	<0.012	<0.0069	<0.0099	**0.029**	<0.0055	**0.033**	<0.0044	**0.022**	**0.014**	**0.0044**	**0.023**	**0.0087**	<0.0088
SG-028J-27	15	12/22/2008	**0.19**	**0.044**	<0.0054	<0.0083	**0.046**	**0.012**	<0.0050	**0.23**	**0.0031**	<0.0068	<0.0032	**0.0093**	<0.0032	**0.072**	**0.028**	**0.013**	<0.0040	**0.012**	**0.0097**	**0.30**	<0.012	<0.0068	<0.0097	**0.27**	<0.0054	**0.013**	<0.0044	**0.0078**	**0.096**	**0.034**	**0.26**	**0.11**	<0.0086
SG-028J-27	5 [5]	12/23/2008	**0.057**	**0.034**	<0.0048	<0.0073	**0.024**	**0.039**	<0.0045	**0.25**	<0.0015	<0.0060	<0.0029	**0.014**	<0.0028	**0.068**	**0.026**	<0.0080	<0.0035	<0.011	**0.0081**	**0.27**	<0.010	<0.0060	<0.0086	**0.24**	<0.0048	**0.030**	<0.0039	**0.010**	**0.073**	**0.029**	**0.23**	**0.087**	**0.021**
SG-028J-27	9.5 [5]	12/23/2008	**0.027**	**0.0043**	<0.0050	<0.0076	**0.011**	**0.0023**	<0.0047	**0.42**	<0.0015	<0.0063	<0.0030	**0.018**	<0.0029	**0.0051**	<0.0036	<0.0083	<0.0037	<0.011	<0.0061	**0.096**	<0.011	<0.0063	<0.0090	**0.015**	<0.0050	**0.041**	<0.0040	**0.027**	<0.0073	<0.0036	**0.016**	**0.0060**	**0.013**
SG-028J-27	15 [5, 6]	12/23/2008	**0.21**	**0.083**	<0.0050	<0.0076	**0.056**	**0.038**	**0.0077**	**0.43**	<0.0015	<0.0063	<0.0030	**0.040**	<0.0029	**0.15**	**0.067**	**0.019**	<0.0037	<0.011	**0.0072**	**0.18**	**0.016**	**0.0092**	<0.0090	**0.57**	**0.0053**	**0.045**	<0.0040	**0.017**	**0.21**	**0.081**	**0.51**	**0.20**	<0.0080
SG-028J-29	5	12/23/2008	**0.094**	**0.0084**	<0.0053	<0.0081	**0.059**	**0.0045**	<0.0049	**0.15**	<0.0016	<0.0067	<0.0032	**0.0053**	<0.0031	**0.0068**	**0.0050**	<0.0088	<0.0039	<0.012	**0.011**	**0.16**	<0.011	<0.0067	<0.0095	**0.025**	<0.0053	**0.020**	<0.0043	**0.026**	**0.020**	**0.0060**	**0.023**	**0.0089**	**1.3**
SG-028J-29	10	12/23/2008	**0.043**	**0.0038**	<0.0052	<0.0080	**0.019**	**0.0028**	**0.0055**	**0.95**	<0.0016	<0.0066	<0.0031	**0.017**	<0.0031	**0.0047**	<0.0038	<0.0087	<0.0038	<0.012	<0.0063	**0.16**	<0.011	<0.0066	<0.0094	**0.017**	**0.0066**	**0.077**	<0.0042	**0.14**	<0.0076	<0.0038	**0.016**	**0.0063**	<0.0084
SG-028J-29	15	12/23/2008	**0.065**	**0.028**	<0.0048	<0.0074	**0.035**	**0.0056**	**0.0052**	**0.16**	**0.0016**	<0.0061	<0.0029	**0.018**	<0.0029	**0.032**	**0.012**	<0.0081	<0.0036	**0.011**	**0.013**	**0.37**	<0.010	<0.0061	<0.0087	**0.15**	**0.0050**	**0.027**	<0.0039	**0.027**	**0.040**	**0.014**	**0.11**	**0.040**	**0.098**
SG-028J-29	23.5	12/23/2008	**0.078**	**0.011**	<0.0058	<0.0089	**0.037**	**0.0037**	**0.016**	**1.8**	<0.0018	<0.0073	**0.0058**	**0.10**	<0.0034	**0.010**	<0.0042	<0.0097	<0.0043	**0.019**	**0.014**	**0.27**	<0.012	<0.0073	<0.010	**0.047**	**0.012**	**0.11**	**0.016**	**0.36**	**0.014**	**0.0047**	**0.031**	**0.011**	<0.0093
SG-028J-30	5	12/23/2008	**0.047**	**0.013**	<0.0047	<0.0073	**0.026**	**0.0065**	<0.0044	**0.19**	<0.0015	<0.0060	<0.0029	**0.0063**	<0.0028	**0.010**	**0.0049**	<0.0079	<0.0035	<0.011	**0.0094**	**0.28**	<0.010	<0.0060	<0.0085	**0.056**	<0.0048	**0.013**	<0.0038	**0.0079**	**0.018**	**0.0061**	**0.033**	**0.012**	**0.15**
SG-028J-30	10	12/23/2008	**0.051**	**0.0079**	<0.0052	<0.0080	**0.021**	**0.0076**	<0.0049	**0.42**	<0.0016	<0.0066	<0.0031	**0.017**	<0.0031	**0.011**	**0.0061**	<0.0087	<0.0038	<0.012	<0.0063	**0.15**	<0.011	<0.0066	<0.0094	**0.032**	<0.0053	**0.040**	<0.0042	**0.034**	**0.021**	**0.0073**	**0.037**	**0.015**	**0.011**
SG-028J-30	23	12/23/2008	**0.053**	**0.031**	<0.0051	**0.011**	0.018	<0.013	<0.0050	**2.3**	<0.0016	<0.0065	<0.0031	**0.097**	<0.0030	**0.024**	**0.0039**	**0.024**	<0.0038	**0.022**	<0.0063	**0.16**	<0.011	<0.0065	<0.0093	**0.13**	**0.0087**	**0.071**	<0.0042	**0.10**	**0.013**	**0.0053**	**0.073**	**0.021**	<0.0083
SG-028J-33	5 [7]	12/23/2008	**0.066**	**0.014**	<0.0048	<0.0073	**0.0095**	**0.0026**	<0.0045	**0.31**	<0.0015	<0.0060	<0.0029	<0.0028	<0.0028	**0.050**	**0.025**	<0.0080	<0.0035	<0.011	<0.0058	**0.0080**	<0.010	<0.0060	<0.0086	**0.14**	<0.0048	**0.016**	<0.0039	**0.031**	**0.078**	**0.031**	**0.19**	**0.063**	**0.066**
SG-028J-33	9.5 [7]	12/23/2008	**0.015**	**0.012**	<0.0048	<0.0074	<0.0042	**0.0071**	<0.0045	**0.55**	<0.0015	<0.0061	<0.0029	**0.0035**	<0.0028	**0.033**	**0.016**	<0.0080	<0.0035	**0.014**	<0.0059	<0.0059	<0.010	<0.0061	<0.0087	**0.084**	<0.0048	**0.023**	<0.0039	**0.068**	**0.041**	**0.018**	**0.11**	**0.039**	**0.024**
SG-028J-33	13.7 [7]	12/23/2008	**0.062**	**0.10**	<0.025	<0.038	<0.022	**0.063**	<0.023	**0.37**	<0.0076	<0.0031	<0.015	<0.015	<0.015	**0.22**	**0.088**	<0.041	<0.018	<0.056	<0.030	<0.030	<0.053	<0.031	<0.045	**0.74**	<0.025	<0.020	<0.020	**0.025**	**0.28**	**0.11**	**0.86**	**0.26**	**0.089**
SG-028J-33	24.5 [7]	12/23/2008	**0.028**	**0.0037**	<0.0050	<0.0078	**0.0046**	<0.0023	<0.0047	**1.2**	<0.0015	<0.0064	<0.0030	**0.015**	<0.0030	<0.0033	<0.0037	**0.011**	<0.0037	**0.018**	<0.0061	<0.0061	<0.011	<0.0064	<0.0091	**0.0061**	**0.0074**	**0.030**	<0.0041	**0.16**	<0.0074	<0.0037	<0.013	<0.0033	**0.013**
SG-028J-36	5	12/23/2008	**0.15**	**0.0091**	<0.0052	<0.0080	**0.068**	**0.013**	<0.0048	**0.035**	<0.0016	<0.0066	<0.0031	<0.0031	<0.0031	**0.012**	**0.0090**	**0.11**	**0.0042**	**0.029**	**0.0097**	**0.36**	<0.011	<0.0066	<0.0093	**0.041**	<0.0052	**0.0057**	<0.0042	<0.0041	**0.038**	**0.011**	**0.048**	**0.017**	<0.0083
SG-028J-36	10	12/23/2008	**0.12**	**0.033**	**0.020**	**0.012**	**0.034**	**0.054**	<0.0052	**0.15**	**0.0026**	**0.027**	<0.0034	<0.0033	<0.0033	**0.040**	**0.017**	**0.11**	**0.0044**	**0.033**	**0.011**	**0.30**	<0.012	<0.0071	<0.010	**0.13**	**0.0078**	**0.0080**	<0.0045	<0.0045	**0.067**	**0.020**	**0.14**	**0.047**	<0.0090
SG-028J-36	15	12/23/2008	**0.066**	**0.014**	<0.0048	<0.0074	**0.040**	**0.0052**	<0.0045	**0.21**	**0.0018**	<0.0061	<0.0029	<0.0028	<0.0028	**0.012**	**0.0042**	**0.21**	<0.0035	**0.061**	**0.013**	**0.44**	<0.010	<0.0061	<0.0087	**0.057**	**0.019**	**0.012**	<0.0039	<0.0038	**0.019**	**0.0055**	**0.045**	**0.014**	<0.0077
SG-028J-36	25.5	12/23/2008	**0.11**	**0.024**	<0.024	<0.037	**0.042**	<0.011	<0.022	**0.46**	<0.0073	<0.0030	<0.014	<0.014	<0.014	<0.015	<0.017	**0.20**	<0.018	**0.061**	<0.029	**0.54**	<0.051	<0.030	<0.043	**0.095**	<0.024	<0.019	<0.019	<0.019	<0.035	<0.017	<0.062	**0.016**	<0.038
SG-028J-38	10	12/23/2008	**0.038**	**0.020**	<0.0047	<0.0073	**0.016**	**0.020**	**0.0052**	**0.34**	<0.0015	<0.0060	<0.0029	**0.029**	<0.0028	**0.023**	**0.0063**	<0.0079	<0.0035	<0.011	<0.0058	**0.14**	<0.010	<0.0060	<0.0085	**0.097**	**0.0059**	**0.050**	<0.0038	**0.046**	**0.019**	**0.0072**	**0.063**	**0.020**	**0.63**
SG-028J-38	15	12/23/2008	**0.037**	**0.050**	<0.0053	<0.0081	**0.019**	**0.018**	**0.0073**	**0.76**	<0.0016	<0.0067	<0.0032	**0.048**	<0.0031	**0.045**	**0.0092**	**0.0090**	<0.0039	<0.012	**0.0078**	**0.23**	<0.011	<0.0067	<0.0095	**0.22**	**0.013**	**0.058**	<0.0043	**0.043**	**0.030**	**0.012**	**0.14**	**0.041**	<0.0085
SG-028J-38	23	12/22/2008	**0.11**	**0.017**	<0.0056	<0.0086	**0.053**	**0.0043**	**0.010**	**2.0**	**0.0018**	<0.0071	**0.0043**	<0.0033	**0.14**	**0.018**	<0.0041	**0.013**	<0.0041	**0.016**	**0.012**	**0.26**	<0.012	<0.0071	**0.010**	**0.098**	<0.0057	**0.085**	<0.0046	**0.14**	**0.017**	**0.0064**	**0.060**	**0.020**	**3.5**
SG-028J-38	23 [8]	12/22/2008	**0.11**	**0.017**	<0.0054	<0.0084	**0.052**	**0.0044**	**0.010**	**2.5**	<0.0017	<0.0069	**0.0044**	<0.0032	**0.14**	**0.019**	<0.0040	**0.012**	<0.0040	**0.016**	**0.011**	**0.40**	<0.012	<0.0069	**0.010**	**0.10**	<0.0055	**0.085**	<0.0044	**0.14**	**0.016**	**0.0064**	**0.061**	**0.021**	**4.5**
SG-028J-39	5	12/23/2008	**0.020**	**0.020**	<0.0050	<0.0078	<0.0044	**0.0071**	<0.0047	**0.46**	<0.0015	<0.0064	<0.0030	**0.0042**	<0.0030	**0.063**	**0.037**	<0.0084	<0.0037	<0.011	<0.0061	<0.0061	<0.011	<0.0064	<0.0091	**0.18**	<0.0051	**0.032**	<0.0041	**0.038**	**0.13**	**0.045**	**0.25**	**0.082**	<0.0081
SG-028J-39	9.5	12/23/2008	**0.022**	**0.0041**	<0.0049	<0.0076	**0.0047**	**0.0034**	<0.0046	**0.43**	<0.0015	<0.0063	<0.0030	**0.0079**	<0.0029	**0.0049**	<0.0036	<0.0083	<0.0036	<0.011	<0.0060	<0.0060	<0.011	<0.0063	<0.0089	**0.014**	<0.0050	**0.036**	<0.0040	**0.069**	**0.0075**	<0.0036	**0.017**	**0.0061**	<0.0079
SG-028J-39	13.5	12/23/2008	**0.017**	**0.054**	<0.0050	<0.0076	<0.0044	**0.031**	<0.0047	**0.28**	<0.0015	<0.0063	<0.0030	**0.0084**	<0.0029	**0.12**	**0.052**	<0.0083	<0.0037	**0.017**	<0.0061	<0.0061	<0.011	**0.010**	<0.0090	**0.23**	<0.0050	**0.025**	<0.0040	**0.044**	**0.15**	**0.060**	**0.41**	**0.14**	<0.0080
SG-028J-39	23.5	12/23/2008	**0.078**	**0.025**	<0.0051	<0.0079	**0.030**	**0.0066**	<0.0048	**2.0**	<0.0016	<0.0065	<0.0031	**0.033**	<0.0030	**0.11**	**0.063**	**0.011**	<0.0038	**0.019**	**0.0098**	**0.016**	**0.014**	**0.017**	**0.011**	**0.25**	**0.0088**	**0.048**	<0.0041	**0.19**	**0.20**	**0.078**	**0.42**	**0.15**	**0.13**
SG-028J-39	23.5 [8]	12/23/2008	**0.055**	**0.023**	<0.0052	<0.0080	**0.0092**	**0.0057**	<0.0049	**2.0**	<0.0016	<0.0066	<0.0031	**0.029**	<0.0031	**0.096**	**0.050**	**0.0093**	<0.0038	**0.017**	<0.0063	**0.010**	**0.011**	**0.012**	<0.0094	**0.23**	**0.0077**	**0.042**	<0.0042	**0.17**	**0.17**	**0.065**	**0.37**	**0.13**	**0.12**
Field Quality Control Samples																																			
Trip Blank	--	12/22/2008	<0.0048	<0.0016	<0.0034	<0.0052	<0.0029	<0.0016	<0.0031	<0.0024	<0.0010	<0.0043	<0.0020	<0.0020	<0.0020	<0.0022	<0.0025	<0.0056	<0.0025	<0.0077	<0.0041	<0.0041	<0.0072	<0.0043	<0.0061	<0.0019	<0.0034	<0.0027	<0.0027	<0.0027	<0.0049	<0.0025	<0.0087	<0.0022	<0.0054
Trip Blank	--	12/23/2008	<0.0048	<0.0016	<0.0034	<0.0052	<0.0029	<0.0016	<0.0031	<0.0024	<0.0010	<0.0043	<0.0020	<0.0020	<0.0020	<0.0022	<0.0025	<0.0056	<0.0025	<0.0077	<0.0041	<0.0041	<0.0072	<0.0043	<0.0061	<0.0019	<0.0034	<0.0027	<0.0027	<0.0027	<0.0049	<0.0025	<0.0087	<0.0022	<0.0054
ATMLC-1 [9]	--	12/23/2008	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**4.5**
ATMLC-2 [10]	--	12/23/2008	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**28,000**
ATMLC-3 [11]	--	12/23/2008	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**2,600**
Number of Samples			*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*	*30*
Number of Detections			*30*	*30*	*1*	*2*	*26*	*26*	*8*	*30*	*5*	*1*	*3*	*22*	*2*	*28*	*21*	*13*	*2*	*15*	*16*	*24*	*3*	*4*	*3*	*30*	*12*	*28*	*1*	*25*	*26*	*25*	*28*	*29*	*15*
Minimum Detected Concentration			*0.015*	*0.0037*	*0.020*	*0.011*	*0.0046*	*0.0023*	*0.0052*	*0.035*	*0.0016*	*0.027*	*0.0043*	*0.0035*	*0.14*	*0.0047*	*0.0039*	*0.0090*	*0.0042*	*0.011*	*0.0072*	*0.0080*	*0.011*	*0.0092*	*0.010*	*0.0061*	*0.0050*	*0.0057*	*0.016*	*0.0078*	*0.0075*	*0.0044*	*0.016*	*0.0060*	*0.011*
Maximum Detected Concentration			*0.21*	*0.10*	*0.020*	*0.012*	*0.074*	*0.063*	*0.016*	*2.5*	*0.0031*	*0.027*	*0.0058*	*0.10*	*0.14*	*0.22*	*0.088*	*0.21*	*0.0044*	*0.061*	*0.020*	*0.71*	*0.016*	*0.017*	*0.011*	*0.74*	*0.019*	*0.11*	*0.016*	*0.36*	*0.28*	*0.11*	*0.86*	*0.26*	*4.5*
Average Detected Concentration			*0.07*	*0.02*	*0.020*	*0.012*	*0.033*	*0.016*	*0.008*	*0.74*	*0.0022*	*0.027*	*0.0048*	*0.02*	*0.14*	*0.05*	*0.026*	*0.06*	*0.0043*	*0.024*	*0.011*	*0.26*	*0.014*	*0.012*	*0.010*	*0.15*	*0.009*	*0.04*	*0.016*	*0.08*	*0.07*	*0.03*	*0.17*	*0.06*	*0.7*

Notes:

[1] Only compounds detected in at least one sample are shown. Results are in micrograms per liter (ug/L).

[2] Samples analyzed by Calscience Environmental Laboratories, Inc. of Garden Grove, California by USEPA Method TO-15.

[3] The extraction system was turned off on August 12, 2008.

[4] Risk-Based Target Concentrations (RBTCs) for residential land use (assuming vapor migration into an onsite building) as presented in the Final Remedy Completion Report for the Redevelopment Property (Source: Final Remedy Completion Report, Redevelopment Property, Hitachi Global Storage Technologies, Inc., 5600 Cottle Road, San Jose, California. Prepared by ENVIRON International Corporation, August, 2007).

[5] Replicate sample.

[6] During sampling, the needle of the summa canister's vacuum gauge would not go below -8 in. Hg. After processing the sample, the guage indicated a vacuum of -3 in. Hg.

[7] Probe depths were initially mis-labeled at this location causing slight deviations from the planned 3.0 purge volumes. As a result, the purge volumes of the 5.0-foot, 9.5-foot, 13.7-foot ,and 24.5-foot samples were 3.3, 2.7, 3.4, and 2.6, respectively.

[8] Duplicate sample.

[9] Leak-check atmosphere field blank sample. Collected in Tedlar bag.

[10] Leak-check atmosphere sample collected from within the shroud covering sampling connections and summa canister. Collected in Tedlar bag.

[11] Leak-check atmosphere sample collected at the top of the vapor probe. Collected in Tedlar bag.

[12] As an RBTC was not previously calculated for all chemicals, the San Francisco Regional Water Quality Control Board (SFRWQCB, 2008) Environmental Screening Level (ESL) has been added for comparison. The ESLs listed correspond to the shallow soil gas screening levels for evaluation of vapor intrusion concerns using the Department of Toxic Substances Control (DTSC) attenuation factors under a residential exposure scenario (Table E-4). This is a conservative comparison as these ESLs are intended for a depth of five feet bgs and do not take into account site-specific soil properties.

NA = Not Available

bgs = below ground surface

< = the analyte was not detected above the detection limit

na = not analyzed

Results detected above the reporting limit are shown in **bold**.

"CT" = Carbon Tetrachloride
"1,1-DCE" = 1,1-Dichloroethene
"trans-1,2-DCE" = trans-1,2-Dichloroethene
"1,1-DFA" = 1,1-Difluoroethane
"Freon 11" = Trichlorofluoromethane
"Freon 12" = Dichlorodifluoromethane
"Freon 113" = 1,1,2-Trichloro-1,2,2-trifluoroethane
"MTBE" = Methyl-tert-butyl-ether
"TBA" = Tert-butyl Alcohol
"PCE" = Tetrachloroethene
"1,1,1-TCA" = 1,1,1-Trichloethane
"TCE" = Trichloroethene
"1,2,4-TMB" = 1,2,4-Trimethylbenzene
"1,3,5-TMB" = 1,3,5-Trimethylbenzene

TABLE 5: A-AQUIFER GROUNDWATER DATA: POST-REMEDIATION COMPARISON TO RBTCs
Former Building 028J Area
Hitachi Global Storage Technologies, Inc.
5600 Cottle Road, San Jose, California

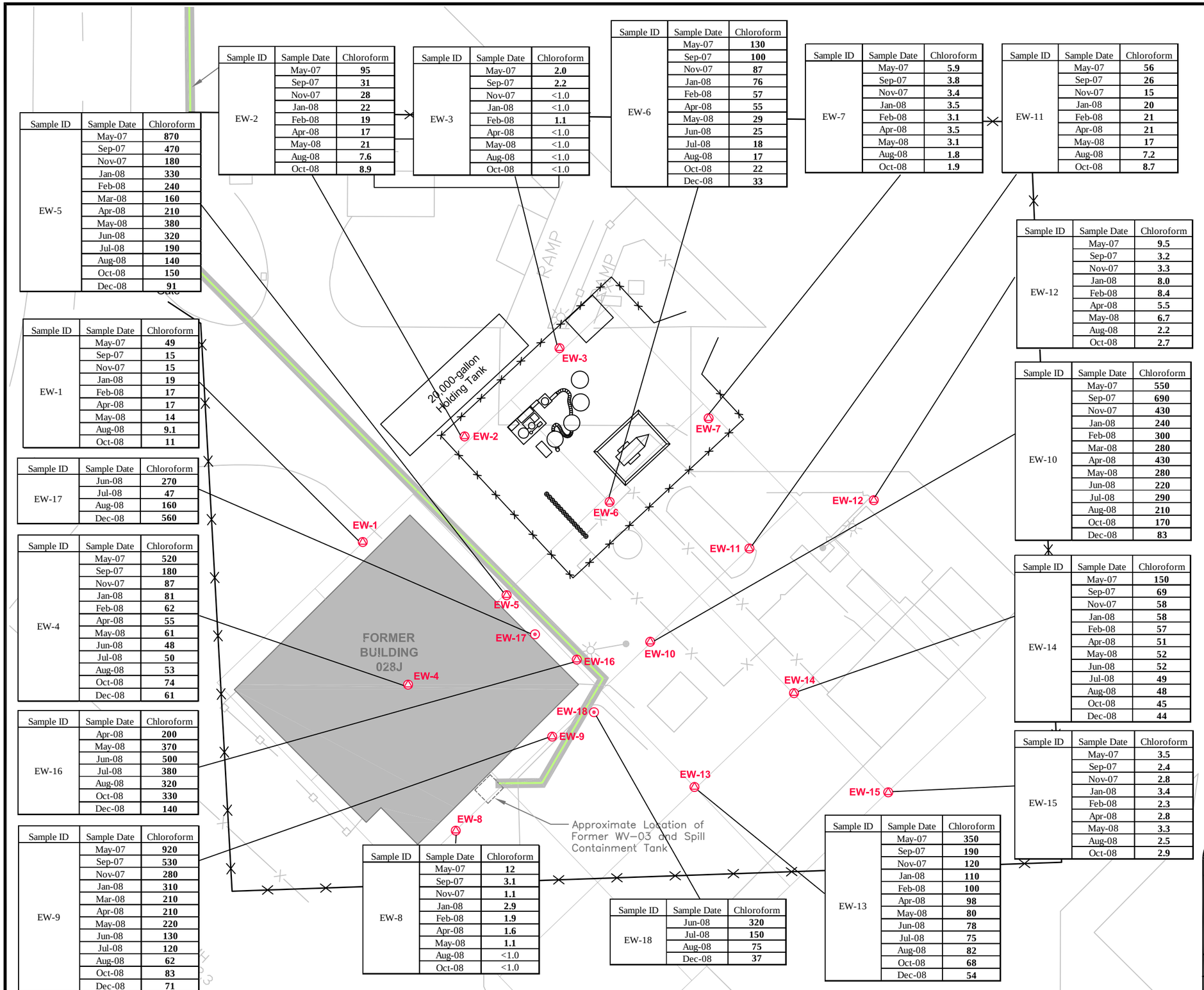
		Post- Remediation Results (ug/L)		
		Chloroform Data Range (Average) in A-Aquifer Groundwater Wells: EW-4, EW-5, EW-6, EW-9, EW-10, EW-13, EW-14 and EW-16		
	Risk-Based Target Concentration for Chloroform[1]	August 2008	October 2008	December 2008
Groundwater	380	16 - 320	22 - 330	33 - 140
		(116)	(117)	(72)

Notes:

(xxx) = average concentration
bgs = below ground surface
ug/L = microgram per liter

[1] Risk-Based Target Concentrations (RBTCs) for residential land use (assuming vapor migration into an onsite building) as presented in the Final Remedy Completion Report for the Redevelopment Property (*Source: Final Remedy Completion Report, Redevelopment Property, Hitachi Global Storage Technologies, Inc., 5600 Cottle Road, San Jose, California. Prepared by ENVIRON, August, 2007*).

Figures



Sample ID	Sample Date	Chloroform
EW-5	May-07	870
	Sep-07	470
	Nov-07	180
	Jan-08	330
	Feb-08	240
	Mar-08	160
	Apr-08	210
	May-08	380
	Jun-08	320
	Jul-08	190
	Aug-08	140
	Oct-08	150
	Dec-08	91

Sample ID	Sample Date	Chloroform
EW-2	May-07	95
	Sep-07	31
	Nov-07	28
	Jan-08	22
	Feb-08	19
	Apr-08	17
	May-08	21
	Aug-08	7.6
	Oct-08	8.9

Sample ID	Sample Date	Chloroform
EW-3	May-07	2.0
	Sep-07	2.2
	Nov-07	<1.0
	Jan-08	<1.0
	Feb-08	1.1
	Apr-08	<1.0
	May-08	<1.0
	Aug-08	<1.0
	Oct-08	<1.0

Sample ID	Sample Date	Chloroform
EW-6	May-07	130
	Sep-07	100
	Nov-07	87
	Jan-08	76
	Feb-08	57
	Apr-08	55
	May-08	29
	Jun-08	25
	Jul-08	18
	Aug-08	17
	Oct-08	22
	Dec-08	33

Sample ID	Sample Date	Chloroform
EW-7	May-07	5.9
	Sep-07	3.8
	Nov-07	3.4
	Jan-08	3.5
	Feb-08	3.1
	Apr-08	3.5
	May-08	3.1
	Aug-08	1.8
	Oct-08	1.9

Sample ID	Sample Date	Chloroform
EW-11	May-07	56
	Sep-07	26
	Nov-07	15
	Jan-08	20
	Feb-08	21
	Apr-08	21
	May-08	17
	Aug-08	7.2
	Oct-08	8.7

Sample ID	Sample Date	Chloroform
EW-12	May-07	9.5
	Sep-07	3.2
	Nov-07	3.3
	Jan-08	8.0
	Feb-08	8.4
	Apr-08	5.5
	May-08	6.7
	Aug-08	2.2
	Oct-08	2.7

Sample ID	Sample Date	Chloroform
EW-10	May-07	550
	Sep-07	690
	Nov-07	430
	Jan-08	240
	Feb-08	300
	Mar-08	280
	Apr-08	430
	May-08	280
	Jun-08	220
	Jul-08	290
	Aug-08	210
	Oct-08	170
	Dec-08	83

Sample ID	Sample Date	Chloroform
EW-14	May-07	150
	Sep-07	69
	Nov-07	58
	Jan-08	58
	Feb-08	57
	Apr-08	51
	May-08	52
	Jun-08	52
	Jul-08	49
	Aug-08	48
	Oct-08	45
	Dec-08	44

Sample ID	Sample Date	Chloroform
EW-15	May-07	3.5
	Sep-07	2.4
	Nov-07	2.8
	Jan-08	3.4
	Feb-08	2.3
	Apr-08	2.8
	May-08	3.3
	Aug-08	2.5
	Oct-08	2.9

Sample ID	Sample Date	Chloroform
EW-1	May-07	49
	Sep-07	15
	Nov-07	15
	Jan-08	19
	Feb-08	17
	Apr-08	17
	May-08	14
	Aug-08	9.1
	Oct-08	11

Sample ID	Sample Date	Chloroform
EW-17	Jun-08	270
	Jul-08	47
	Aug-08	160
	Dec-08	560

Sample ID	Sample Date	Chloroform
EW-4	May-07	520
	Sep-07	180
	Nov-07	87
	Jan-08	81
	Feb-08	62
	Apr-08	55
	May-08	61
	Jun-08	48
	Jul-08	50
	Aug-08	53
	Oct-08	74
	Dec-08	61

Sample ID	Sample Date	Chloroform
EW-16	Apr-08	200
	May-08	370
	Jun-08	500
	Jul-08	380
	Aug-08	320
	Oct-08	330
	Dec-08	140

Sample ID	Sample Date	Chloroform
EW-9	May-07	920
	Sep-07	530
	Nov-07	280
	Jan-08	310
	Mar-08	210
	Apr-08	210
	May-08	220
	Jun-08	130
	Jul-08	120
	Aug-08	62
	Oct-08	83
	Dec-08	71

Sample ID	Sample Date	Chloroform
EW-8	May-07	12
	Sep-07	3.1
	Nov-07	1.1
	Jan-08	2.9
	Feb-08	1.9
	Apr-08	1.6
	May-08	1.1
	Aug-08	<1.0
	Oct-08	<1.0

Sample ID	Sample Date	Chloroform
EW-18	Jun-08	320
	Jul-08	150
	Aug-08	75
	Dec-08	37

Sample ID	Sample Date	Chloroform
EW-13	May-07	350
	Sep-07	190
	Nov-07	120
	Jan-08	110
	Feb-08	100
	Apr-08	98
	May-08	80
	Jun-08	78
	Jul-08	75
	Aug-08	82
	Oct-08	68
	Dec-08	54

EXPLANATION:

EW-17 — A/B Aquitard Extraction Well

EW-12 — A-Aquifer Groundwater Monitoring / Extraction Well

Construction Fence

12-foot Security Fence

Notes:

1. Results shown in microgram per liter (µg/L).
2. < = Not detected at the detection limit listed.

N

0 25

SCALE IN FEET

ENVIRON

Chloroform Results in Groundwater Wells in the Former Building 028J Area
Hitachi GST
San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
12/29/08	03-11903E		1
DRAFTER: RS	APPROVED:	REVISED:	

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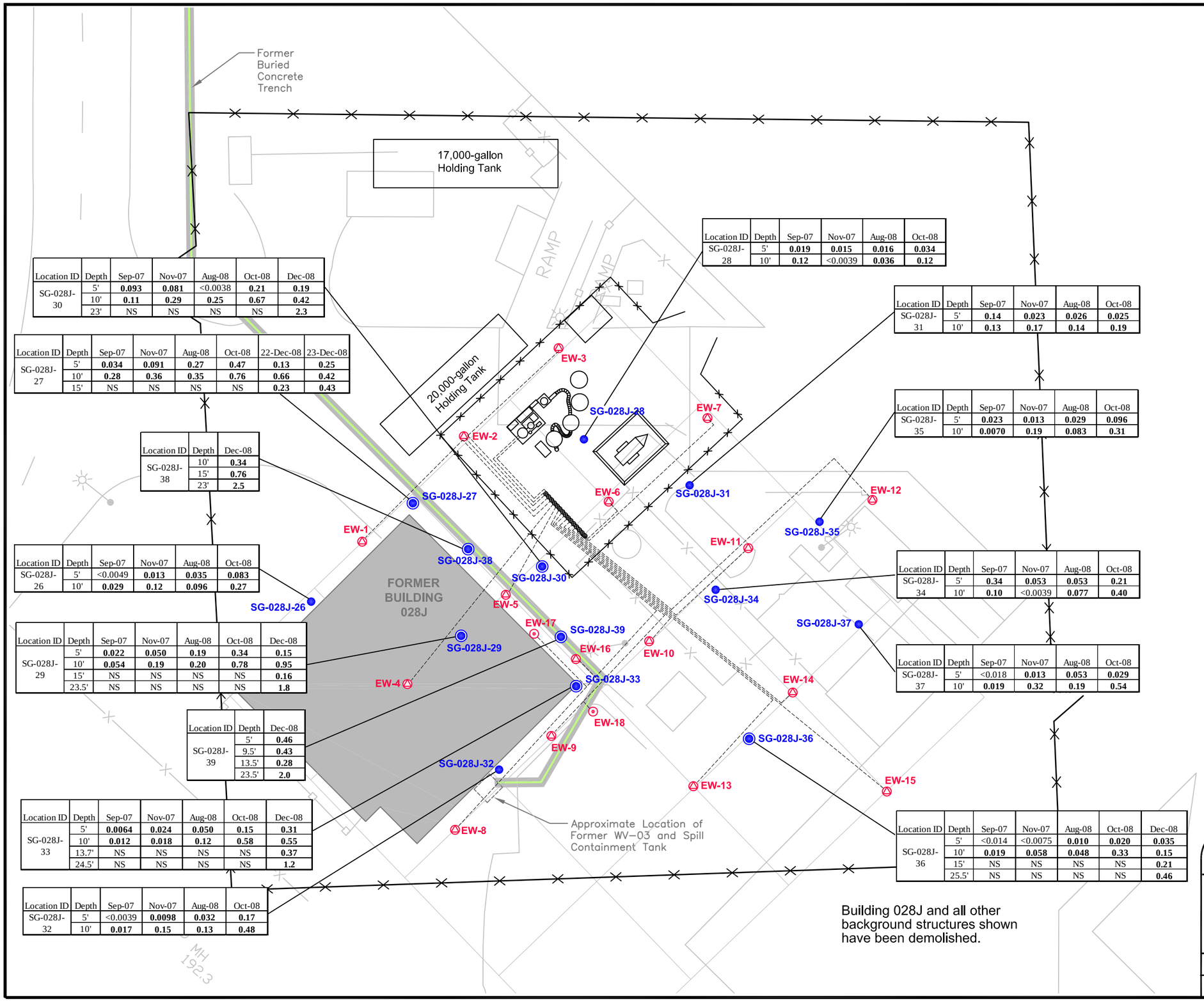

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08	Dec-08
SG-028J-30	5'	**0.093**	**0.081**	<0.0038	**0.21**	**0.19**
	10'	**0.11**	**0.29**	**0.25**	**0.67**	**0.42**
	23'	NS	NS	NS	NS	**2.3**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08	22-Dec-08	23-Dec-08
SG-028J-27	5'	**0.034**	**0.091**	**0.27**	**0.47**	**0.13**	**0.25**
	10'	**0.28**	**0.36**	**0.35**	**0.76**	**0.66**	**0.42**
	15'	NS	NS	NS	NS	**0.23**	**0.43**

Location ID	Depth	Dec-08
SG-028J-38	10'	**0.34**
	15'	**0.76**
	23'	**2.5**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-26	5'	<0.0049	**0.013**	**0.035**	**0.083**
	10'	**0.029**	**0.12**	**0.096**	**0.27**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08	Dec-08
SG-028J-29	5'	**0.022**	**0.050**	**0.19**	**0.34**	**0.15**
	10'	**0.054**	**0.19**	**0.20**	**0.78**	**0.95**
	15'	NS	NS	NS	NS	**0.16**
	23.5'	NS	NS	NS	NS	**1.8**

Location ID	Depth	Dec-08
SG-028J-39	5'	**0.46**
	9.5'	**0.43**
	13.5'	**0.28**
	23.5'	**2.0**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08	Dec-08
SG-028J-33	5'	**0.0064**	**0.024**	**0.050**	**0.15**	**0.31**
	10'	**0.012**	**0.018**	**0.12**	**0.58**	**0.55**
	13.7'	NS	NS	NS	NS	**0.37**
	24.5'	NS	NS	NS	NS	**1.2**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-32	5'	<0.0039	**0.0098**	**0.032**	**0.17**
	10'	**0.017**	**0.15**	**0.13**	**0.48**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-28	5'	**0.019**	**0.015**	**0.016**	**0.034**
	10'	**0.12**	<0.0039	**0.036**	**0.12**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-31	5'	**0.14**	**0.023**	**0.026**	**0.025**
	10'	**0.13**	**0.17**	**0.14**	**0.19**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-35	5'	**0.023**	**0.013**	**0.029**	**0.096**
	10'	**0.0070**	**0.19**	**0.083**	**0.31**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-34	5'	**0.34**	**0.053**	**0.053**	**0.21**
	10'	**0.10**	<0.0039	**0.077**	**0.40**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-37	5'	<0.018	**0.013**	**0.053**	**0.029**
	10'	**0.019**	**0.32**	**0.19**	**0.54**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08	Dec-08
SG-028J-36	5'	<0.014	<0.0075	**0.010**	**0.020**	**0.035**
	10'	**0.019**	**0.058**	**0.048**	**0.33**	**0.15**
	15'	NS	NS	NS	NS	**0.21**
	25.5'	NS	NS	NS	NS	**0.46**

Building 028J and all other background structures shown have been demolished.

EXPLANATION:

- EW-17 — A/B Aquitard Extraction Well
- EW-12 — Groundwater Monitoring / Extraction Well
- Approximate Soil Gas Sample Location
- Approximate December 2008 Soil Gas Sample Locations
- Construction Fence
- 12-foot Security Fence
- Aboveground Extraction Well Piping

Notes:

1. Results shown in microgram per liter (µg/L).
2. < = Not detected at the detection limit listed.
3. The lowest residential risk-based target concentrations (RBTCs) for chloroform in soil gas are 1.1 µg/L (5'), 1.9 µg/L (10'), and 8.9 µg/L (15').
4. NS = Not Sampled

N

0 25

SCALE IN FEET

ENVIRON

Interim and Post-Remediation Soil Gas Sample Locations and Chloroform Results
Hitachi GST
San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
12/30/08	03-11903E		2
DRAFTER: RS	APPROVED:	REVISED:	

Q:\DRAWINGS\0311903E\0311903e-b026-28J---SG-chloroform-DEC-08.dwg - Fri, 02 Jan 2009 - 10:54am

Appendices

Appendix A:
Groundwater Analytical Laboratory Reports
December 2008

Contents

This appendix presents the analytical reports for samples collected from groundwater in the former Building 028J area in December 2008. The reports included herein are as follows:

TestAmerica Laboratories, Inc. Job No. 720-17422-1

TestAmerica Laboratories, Inc. Job No. 720-17440-1

TestAmerica Laboratories, Inc. Job No. 720-17441-1

TestAmerica Laboratories, Inc. Job No. 720-17446-1

ANALYTICAL REPORT

Job Number: 720-17422-1

Job Description: Hitachi GST

For:
ENVIRON International Corp.
6001 Shellmound Street
Suite 700
Emeryville, CA 94608

Attention: Ms. Anne Gates

//original signed by//

Approved for release.
Dimple Sharma
Project Manager I
12/22/2008 2:51 PM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
12/22/2008

cc: Mr. Chris Ritchie

Job Narrative
720-J17422-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 45168 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ENVIRON International Corp. Job Number: 720-17422-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-17422-2	**EW-18**				
Chloroform		36	1.0	ug/L	8260B
720-17422-3	**EW-29**				
Chloroform		37	1.0	ug/L	8260B
720-17422-5	**EW-9**				
Chloroform		71	1.0	ug/L	8260B
720-17422-6	**EW-5**				
Chloroform		91	4.0	ug/L	8260B
720-17422-7	**EW-17**				
Chloroform		560	20	ug/L	8260B

METHOD SUMMARY

Client: ENVIRON International Corp. Job Number: 720-17422-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SF	SW846 8260B	
Purge and Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ENVIRON International Corp. Job Number: 720-17422-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-17422-1TB	EW-18-TB	Water	12/19/2008 0800	12/19/2008 1620
720-17422-2	EW-18	Water	12/19/2008 1045	12/19/2008 1620
720-17422-3	EW-29	Water	12/19/2008 1047	12/19/2008 1620
720-17422-4EB	EW-18-EB	Water	12/19/2008 1108	12/19/2008 1620
720-17422-5	EW-9	Water	12/19/2008 1156	12/19/2008 1620
720-17422-6	EW-5	Water	12/19/2008 1258	12/19/2008 1620
720-17422-7	EW-17	Water	12/19/2008 1425	12/19/2008 1620

Analytical Data

Client: ENVIRON International Corp.

Job Number: 720-17422-1

Client Sample ID: EW-18-TB

Lab Sample ID: 720-17422-1TB
Client Matrix: Water

Date Sampled: 12/19/2008 0800
Date Received: 12/19/2008 1620

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/19/2008 2242
Date Prepared: 12/19/2008 2242

Analysis Batch: 720-45168

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\121908\SA-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	ND		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	74 - 131
1,2-Dichloroethane-d4 (Surr)	104	76 - 132
Toluene-d8 (Surr)	92	82 - 120

Analytical Data

Client: ENVIRON International Corp.

Job Number: 720-17422-1

Client Sample ID: EW-18

Lab Sample ID: 720-17422-2
Client Matrix: Water

Date Sampled: 12/19/2008 1045
Date Received: 12/19/2008 1620

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/19/2008 2315
Date Prepared: 12/19/2008 2315

Analysis Batch: 720-45168

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\121908\SA-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	36		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	110	74 - 131
1,2-Dichloroethane-d4 (Surr)	102	76 - 132
Toluene-d8 (Surr)	103	82 - 120

Client: ENVIRON International Corp. Job Number: 720-17422-1

Client Sample ID: EW-29

Lab Sample ID: 720-17422-3 Date Sampled: 12/19/2008 1047
Client Matrix: Water Date Received: 12/19/2008 1620

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-45168 Instrument ID: Varian 3900G
Preparation: 5030B Lab File ID: e:\data\200812\121908\SA-
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/20/2008 0201 Final Weight/Volume: 40 mL
Date Prepared: 12/20/2008 0201

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	37		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	109	74 - 131
1,2-Dichloroethane-d4 (Surr)	107	76 - 132
Toluene-d8 (Surr)	101	82 - 120

Client: ENVIRON International Corp. Job Number: 720-17422-1

Client Sample ID: EW-18-EB

Lab Sample ID: 720-17422-4EB Date Sampled: 12/19/2008 1108
Client Matrix: Water Date Received: 12/19/2008 1620

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-45168 Instrument ID: Varian 3900G
Preparation: 5030B Lab File ID: e:\data\200812\121908\SA-
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/19/2008 2348 Final Weight/Volume: 40 mL
Date Prepared: 12/19/2008 2348

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	ND		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	112	74 - 131
1,2-Dichloroethane-d4 (Surr)	105	76 - 132
Toluene-d8 (Surr)	101	82 - 120

Analytical Data

Client: ENVIRON International Corp.

Job Number: 720-17422-1

Client Sample ID: EW-9

Lab Sample ID: 720-17422-5
Client Matrix: Water

Date Sampled: 12/19/2008 1156
Date Received: 12/19/2008 1620

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/20/2008 0022
Date Prepared: 12/20/2008 0022

Analysis Batch: 720-45168

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\121908\SA-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	71		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 131
1,2-Dichloroethane-d4 (Surr)	106	76 - 132
Toluene-d8 (Surr)	104	82 - 120

Client: ENVIRON International Corp. Job Number: 720-17422-1

Client Sample ID: EW-5

Lab Sample ID: 720-17422-6 Date Sampled: 12/19/2008 1258
Client Matrix: Water Date Received: 12/19/2008 1620

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 12/20/2008 0055
Date Prepared: 12/20/2008 0055

Analysis Batch: 720-45168

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\121908\SA-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	91		4.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	74 - 131
1,2-Dichloroethane-d4 (Surr)	102	76 - 132
Toluene-d8 (Surr)	94	82 - 120

Analytical Data

Client: ENVIRON International Corp.

Job Number: 720-17422-1

Client Sample ID: EW-17

Lab Sample ID: 720-17422-7
Client Matrix: Water

Date Sampled: 12/19/2008 1425
Date Received: 12/19/2008 1620

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 20
Date Analyzed: 12/22/2008 1202
Date Prepared: 12/22/2008 1202

Analysis Batch: 720-45186

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\122208\SA-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	560		20

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 131
1,2-Dichloroethane-d4 (Surr)	103	76 - 132
Toluene-d8 (Surr)	94	82 - 120

DATA REPORTING QUALIFIERS

Client: ENVIRON International Corp. Job Number: 720-17422-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits

Client: ENVIRON International Corp. Job Number: 720-17422-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-45168					
LCS 720-45168/2	Lab Control Spike	T	Water	8260B	
LCSD 720-45168/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-45168/3	Method Blank	T	Water	8260B	
720-17348-B-1 MS	Matrix Spike	T	Water	8260B	
720-17348-B-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
720-17422-1TB	EW-18-TB	T	Water	8260B	
720-17422-2	EW-18	T	Water	8260B	
720-17422-3	EW-29	T	Water	8260B	
720-17422-4EB	EW-18-EB	T	Water	8260B	
720-17422-5	EW-9	T	Water	8260B	
720-17422-6	EW-5	T	Water	8260B	
Analysis Batch:720-45186					
LCS 720-45186/2	Lab Control Spike	T	Water	8260B	
LCSD 720-45186/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-45186/3	Method Blank	T	Water	8260B	
720-17422-7	EW-17	T	Water	8260B	

Report Basis
T = Total

Client: ENVIRON International Corp.

Job Number: 720-17422-1

Method Blank - Batch: 720-45168

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-45168/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/19/2008 1635
Date Prepared: 12/19/2008 1635

Analysis Batch: 720-45168
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\121908\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Chlorobenzene	ND		0.50
Chloroform	ND		1.0
1,1-Dichloroethene	ND		0.50
Toluene	ND		0.50
Trichloroethene	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 131
1,2-Dichloroethane-d4 (Surr)	106	76 - 132
Toluene-d8 (Surr)	101	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-17422-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-45168

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-45168/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/19/2008 1528
Date Prepared: 12/19/2008 1528

Analysis Batch: 720-45168
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\121908\LS-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-45168/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/19/2008 1601
Date Prepared: 12/19/2008 1601

Analysis Batch: 720-45168
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\121908\LD-V
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	77	71	70 - 130	7	20		
Chlorobenzene	104	97	70 - 130	7	20		
1,1-Dichloroethene	102	93	70 - 130	9	20		
Toluene	96	88	70 - 130	8	20		
Trichloroethene	86	76	70 - 130	12	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	105	110	74 - 131
1,2-Dichloroethane-d4 (Surr)	105	113	76 - 132
Toluene-d8 (Surr)	94	96	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-17422-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-45168

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-17348-B-1 MS	Analysis Batch: 720-45168	Instrument ID: Varian 3900G
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: e:\data\200812\121908\S
Dilution:	4.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/19/2008 1742		Final Weight/Volume: 40 mL
Date Prepared:	12/19/2008 1742		

MSD Lab Sample ID:	720-17348-B-1 MSD	Analysis Batch: 720-45168	Instrument ID: Varian 3900G
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: e:\data\200812\121908\SA
Dilution:	4.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/19/2008 1815		Final Weight/Volume: 40 mL
Date Prepared:	12/19/2008 1815		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	62	69	70 - 130	7	20	F	F
Chlorobenzene	92	97	70 - 130	5	20		
1,1-Dichloroethene	84	84	70 - 130	1	20		
Toluene	69	84	70 - 130	12	20	F	
Trichloroethene	67	77	70 - 130	14	20	F	

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	94	98	74 - 131
1,2-Dichloroethane-d4 (Surr)	100	86	76 - 132
Toluene-d8 (Surr)	87	83	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-17422-1

Method Blank - Batch: 720-45186

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-45186/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2008 1129
Date Prepared: 12/22/2008 1129

Analysis Batch: 720-45186
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\122208\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Chlorobenzene	ND		0.50
Chloroform	ND		1.0
1,1-Dichloroethene	ND		0.50
Toluene	ND		0.50
Trichloroethene	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	74 - 131
1,2-Dichloroethane-d4 (Surr)	101	76 - 132
Toluene-d8 (Surr)	101	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-17422-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-45186

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-45186/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2008 1022
Date Prepared: 12/22/2008 1022

Analysis Batch: 720-45186
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\122208\LS-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-45186/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2008 1055
Date Prepared: 12/22/2008 1055

Analysis Batch: 720-45186
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\122208\LD-V
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	76	75	70 - 130	2	20		
Chlorobenzene	98	101	70 - 130	3	20		
1,1-Dichloroethene	99	95	70 - 130	3	20		
Toluene	91	92	70 - 130	1	20		
Trichloroethene	85	83	70 - 130	3	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	107	98	74 - 131
1,2-Dichloroethane-d4 (Surr)	104	109	76 - 132
Toluene-d8 (Surr)	97	98	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

720-17422

CHAIN-of-CUSTODY

113914

03196

ENVIRON
6001 Shellmound Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

PAGE 1 of 1

PROJECT NAME / FACILITY ID: Hitachi Groundwater Sampling

FIELD PERSON: Dan Clark

PROJECT NUMBER: 03-11903 E

DATE: 12/19/08

PROJECT MANAGER: Anne Gates

PROJECT LOCATION: 5600 Cottle Rd, San Jose, CA

LABORATORY: Test America Inc.

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y (N) IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: Dan Clark

SIGNATURE: [illegible]

	SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 2008)	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: Chloroform ($2608)								COMMENTS
1.	EW-18-TB	12/19	0800	N/A	W	2	U	HCl	X								
2.	EW-18	↓	1045	↓	↓	3	↓	↓	X								
3.	EW-29	↓	1047	↓	↓	3	↓	↓	X								
4.	EW-18-EB	↓	1108	↓	↓	~~3~~ 2 K	↓	↓	X								
5.	EW-9	↓	1156	↓	↓	3	↓	↓	X								
6.	EW-5	↓	1258	↓	↓	3	↓	↓	X								
7.	EW-17	↓	1425	↓	↓	3	↓	↓	X								One of three VOAs contains sediment/turbidity. Use only if necessary
																	DC 12/19/08
	TOTAL	X	X	X	X	19	X	X	7								

RUSH!

RELINQUISHED BY: [illegible]	TIME/DATE: 1520 / 12/19/08	RECEIVED BY: (COMPANY):	TIME/DATE: 1520 / 12/19/08
RELINQUISHED BY:	TIME/DATE: 12/19/08	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:

TURNAROUND TIME (CIRCLE ONE): SAMEDAY / 24 HOURS / 48 HOURS / 72 HOURS / 5 DAYS / NORMAL

SAMPLE INTEGRITY: INTACT: Y N Temp 4.3°C

IF SEALED, SEAL INTEGRITY: INTACT: Y N

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

Login Sample Receipt Check List

Client: ENVIRON International Corp.

Job Number: 720-17422-1

Login Number: 17422
Creator: Bullock, Tracy
List Number: 1

List Source: TestAmerica San Francisco

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 720-17440-1

Job Description: Hitachi GST

For:
ENVIRON International Corp.
6001 Shellmound Street
Suite 700
Emeryville, CA 94608

Attention: Ms. Anne Gates

//original signed by//

Approved for release.
Dimple Sharma
Project Manager I
12/23/2008 11:57 AM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
12/23/2008

cc: Mr. Chris Ritchie

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ENVIRON International Corp. Job Number: 720-17440-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-17440-2	**EW-16**				
Chloroform		140	4.0	ug/L	8260B
720-17440-3	**EW-6**				
Chloroform		33	1.0	ug/L	8260B
720-17440-4	**EW-14**				
Chloroform		44	1.0	ug/L	8260B
720-17440-6	**EW-13**				
Chloroform		54	1.0	ug/L	8260B
720-17440-7	**EW-46**				
Chloroform		54	1.0	ug/L	8260B
720-17440-8	**EW-4**				
Chloroform		61	1.0	ug/L	8260B

METHOD SUMMARY

Client: ENVIRON International Corp. Job Number: 720-17440-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SF	SW846 8260B	
Purge and Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ENVIRON International Corp. Job Number: 720-17440-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-17440-1TB	EW-16-TB	Water	12/19/2008 1555	12/22/2008 1655
720-17440-2	EW-16	Water	12/19/2008 1600	12/22/2008 1655
720-17440-3	EW-6	Water	12/22/2008 1100	12/22/2008 1655
720-17440-4	EW-14	Water	12/22/2008 1235	12/22/2008 1655
720-17440-5EB	EW-13-EB	Water	12/22/2008 1310	12/22/2008 1655
720-17440-6	EW-13	Water	12/22/2008 1420	12/22/2008 1655
720-17440-7	EW-46	Water	12/22/2008 1430	12/22/2008 1655
720-17440-8	EW-4	Water	12/22/2008 1540	12/22/2008 1655

Client: ENVIRON International Corp. Job Number: 720-17440-1

Client Sample ID: EW-16-TB

Lab Sample ID: 720-17440-1TB
Client Matrix: Water

Date Sampled: 12/19/2008 1555
Date Received: 12/22/2008 1655

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/22/2008 1844
Date Prepared: 12/22/2008 1844

Analysis Batch: 720-45186

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\122208\SA-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	ND		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 131
1,2-Dichloroethane-d4 (Surr)	110	76 - 132
Toluene-d8 (Surr)	105	82 - 120

Analytical Data

Client: ENVIRON International Corp.

Job Number: 720-17440-1

Client Sample ID: EW-16

Lab Sample ID: 720-17440-2
Client Matrix: Water

Date Sampled: 12/19/2008 1600
Date Received: 12/22/2008 1655

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 12/22/2008 1918
Date Prepared: 12/22/2008 1918

Analysis Batch: 720-45186

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\122208\SA-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	140		4.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 131
1,2-Dichloroethane-d4 (Surr)	114	76 - 132
Toluene-d8 (Surr)	99	82 - 120

Analytical Data

Client: ENVIRON International Corp.

Job Number: 720-17440-1

Client Sample ID: EW-6

Lab Sample ID: 720-17440-3
Client Matrix: Water

Date Sampled: 12/22/2008 1100
Date Received: 12/22/2008 1655

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/22/2008 1951
Date Prepared: 12/22/2008 1951

Analysis Batch: 720-45186

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\122208\SA-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	33		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	113	74 - 131
1,2-Dichloroethane-d4 (Surr)	102	76 - 132
Toluene-d8 (Surr)	100	82 - 120

Analytical Data

Client: ENVIRON International Corp. Job Number: 720-17440-1

Client Sample ID: EW-14

Lab Sample ID: 720-17440-4 Date Sampled: 12/22/2008 1235
Client Matrix: Water Date Received: 12/22/2008 1655

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-45186 Instrument ID: Varian 3900G
Preparation: 5030B Lab File ID: e:\data\200812\122208\SA-
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/22/2008 2025 Final Weight/Volume: 40 mL
Date Prepared: 12/22/2008 2025

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	44		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 131
1,2-Dichloroethane-d4 (Surr)	112	76 - 132
Toluene-d8 (Surr)	101	82 - 120

Analytical Data

Client: ENVIRON International Corp. Job Number: 720-17440-1

Client Sample ID: EW-13-EB

Lab Sample ID: 720-17440-5EB Date Sampled: 12/22/2008 1310
Client Matrix: Water Date Received: 12/22/2008 1655

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-45186 Instrument ID: Varian 3900G
Preparation: 5030B Lab File ID: e:\data\200812\122208\SA-
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/22/2008 2058 Final Weight/Volume: 40 mL
Date Prepared: 12/22/2008 2058

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	ND		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 131
1,2-Dichloroethane-d4 (Surr)	110	76 - 132
Toluene-d8 (Surr)	106	82 - 120

Analytical Data

Client: ENVIRON International Corp.

Job Number: 720-17440-1

Client Sample ID: **EW-13**

Lab Sample ID: 720-17440-6
Client Matrix: Water

Date Sampled: 12/22/2008 1420
Date Received: 12/22/2008 1655

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/22/2008 1834
Date Prepared: 12/22/2008 1834

Analysis Batch: 720-45227

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122208\SA-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	54		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 131
1,2-Dichloroethane-d4 (Surr)	98	76 - 132
Toluene-d8 (Surr)	101	82 - 120

Client: ENVIRON International Corp. Job Number: 720-17440-1

Client Sample ID: EW-46

Lab Sample ID: 720-17440-7 Date Sampled: 12/22/2008 1430
Client Matrix: Water Date Received: 12/22/2008 1655

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-45227 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\122208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/22/2008 1940 Final Weight/Volume: 40 mL
Date Prepared: 12/22/2008 1940

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	54		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 131
1,2-Dichloroethane-d4 (Surr)	98	76 - 132
Toluene-d8 (Surr)	101	82 - 120

Analytical Data

Client: ENVIRON International Corp. Job Number: 720-17440-1

Client Sample ID: EW-4

Lab Sample ID: 720-17440-8 Date Sampled: 12/22/2008 1540
Client Matrix: Water Date Received: 12/22/2008 1655

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-45227 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\122208\sa-wa
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/22/2008 1907 Final Weight/Volume: 40 mL
Date Prepared: 12/22/2008 1907

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	61		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 131
1,2-Dichloroethane-d4 (Surr)	98	76 - 132
Toluene-d8 (Surr)	102	82 - 120

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: ENVIRON International Corp. Job Number: 720-17440-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-45186					
LCS 720-45186/2	Lab Control Spike	T	Water	8260B	
LCSD 720-45186/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-45186/3	Method Blank	T	Water	8260B	
720-17388-A-3 MS	Matrix Spike	T	Water	8260B	
720-17388-A-3 MSD	Matrix Spike Duplicate	T	Water	8260B	
720-17440-1TB	EW-16-TB	T	Water	8260B	
720-17440-2	EW-16	T	Water	8260B	
720-17440-3	EW-6	T	Water	8260B	
720-17440-4	EW-14	T	Water	8260B	
720-17440-5EB	EW-13-EB	T	Water	8260B	
Analysis Batch:720-45227					
LCS 720-45227/2	Lab Control Spike	T	Water	8260B	
LCSD 720-45227/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-45227/3	Method Blank	T	Water	8260B	
720-17363-C-4 MS	Matrix Spike	T	Water	8260B	
720-17363-D-4 MSD	Matrix Spike Duplicate	T	Water	8260B	
720-17440-6	EW-13	T	Water	8260B	
720-17440-7	EW-46	T	Water	8260B	
720-17440-8	EW-4	T	Water	8260B	

Report Basis
T = Total

Client: ENVIRON International Corp.

Job Number: 720-17440-1

Method Blank - Batch: 720-45186

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-45186/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2008 1129
Date Prepared: 12/22/2008 1129

Analysis Batch: 720-45186
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\122208\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Chlorobenzene	ND		0.50
Chloroform	ND		1.0
1,1-Dichloroethene	ND		0.50
Toluene	ND		0.50
Trichloroethene	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	74 - 131
1,2-Dichloroethane-d4 (Surr)	101	76 - 132
Toluene-d8 (Surr)	101	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp. Job Number: 720-17440-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-45186

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-45186/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2008 1022
Date Prepared: 12/22/2008 1022

Analysis Batch: 720-45186
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\122208\LS-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-45186/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2008 1055
Date Prepared: 12/22/2008 1055

Analysis Batch: 720-45186
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: e:\data\200812\122208\LD-V
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	76	75	70 - 130	2	20		
Chlorobenzene	98	101	70 - 130	3	20		
1,1-Dichloroethene	99	95	70 - 130	3	20		
Toluene	91	92	70 - 130	1	20		
Trichloroethene	85	83	70 - 130	3	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	107	98	74 - 131
1,2-Dichloroethane-d4 (Surr)	104	109	76 - 132
Toluene-d8 (Surr)	97	98	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-17440-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-45186

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-17388-A-3 MS	Analysis Batch: 720-45186	Instrument ID: Varian 3900G
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: e:\data\200812\122208\S/
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/22/2008 1524		Final Weight/Volume: 40 mL
Date Prepared:	12/22/2008 1524		

MSD Lab Sample ID:	720-17388-A-3 MSD	Analysis Batch: 720-45186	Instrument ID: Varian 3900G
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: e:\data\200812\122208\SA·
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/22/2008 1558		Final Weight/Volume: 40 mL
Date Prepared:	12/22/2008 1558		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	73	78	70 - 130	6	20		
Chlorobenzene	99	105	70 - 130	7	20		
1,1-Dichloroethene	98	100	70 - 130	2	20		
Toluene	92	92	70 - 130	0	20		
Trichloroethene	82	87	70 - 130	5	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	101	103	74 - 131
1,2-Dichloroethane-d4 (Surr)	107	106	76 - 132
Toluene-d8 (Surr)	97	99	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-17440-1

Method Blank - Batch: 720-45227

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-45227/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2008 1335
Date Prepared: 12/22/2008 1335

Analysis Batch: 720-45227
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122208\MB-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Chlorobenzene	ND		0.50
Chloroform	ND		1.0
1,1-Dichloroethene	ND		0.50
Toluene	ND		0.50
Trichloroethene	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	74 - 131
1,2-Dichloroethane-d4 (Surr)	97	76 - 132
Toluene-d8 (Surr)	99	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp. Job Number: 720-17440-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-45227

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-45227/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2008 1229
Date Prepared: 12/22/2008 1229

Analysis Batch: 720-45227
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122208\LS-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-45227/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2008 1302
Date Prepared: 12/22/2008 1302

Analysis Batch: 720-45227
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122208\LD-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	93	97	70 - 130	4	20		
Chlorobenzene	103	105	70 - 130	2	20		
1,1-Dichloroethene	97	99	70 - 130	2	20		
Toluene	91	99	70 - 130	8	20		
Trichloroethene	88	95	70 - 130	7	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	101	101	74 - 131
1,2-Dichloroethane-d4 (Surr)	89	92	76 - 132
Toluene-d8 (Surr)	92	98	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-17440-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-45227

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-17363-C-4 MS	Analysis Batch: 720-45227	Instrument ID: Varian 3900F
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: e:\200812\122208\SA-WA
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/22/2008 1728		Final Weight/Volume: 40 mL
Date Prepared:	12/22/2008 1728		

MSD Lab Sample ID:	720-17363-D-4 MSD	Analysis Batch: 720-45227	Instrument ID: Varian 3900F
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: e:\200812\122208\SA-WA
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/22/2008 1801		Final Weight/Volume: 40 mL
Date Prepared:	12/22/2008 1801		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	86	90	70 - 130	4	20		
Chlorobenzene	97	102	70 - 130	5	20		
1,1-Dichloroethene	82	91	70 - 130	10	20		
Toluene	88	92	70 - 130	4	20		
Trichloroethene	84	86	70 - 130	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	100	99	74 - 131
1,2-Dichloroethane-d4 (Surr)	83	90	76 - 132
Toluene-d8 (Surr)	90	91	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

ENVIRON
6001 Shellmound Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

CHAIN-of-CUSTODY

720-17440

113925 03194

PAGE 1 of 1

PROJECT NAME / FACILITY ID: Hitachi FIELD PERSON: Ross Russell

PROJECT NUMBER: 03-11903E DATE: 12/22/2008 PROJECT MANAGER: Ann Gates

PROJECT LOCATION: 500 Cottle Rd., San Jose, CA LABORATORY: Test America Inc.

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y (N) IF YES, GLOBAL ID #: WO#:

SAMPLER: Ross Russell

SIGNATURE:

	SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 2008)	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: Chloroform (8260B)	COMMENTS
1	EW-16-TB	12/19	1555	N/A	W	2	U	HCL	X	
2	EW-16	12/19	1600	N/A	W	3	U	HCL	X	
3	EW-6	12/22	1100	N/A	W	3	U	HCL	X	
4	EW-14	12/22	1235	N/A	W	3	U	HCL	X	
5	EW-13-EB	12/22	1310	N/A	W	2	U	HCL	X	
6	EW-13	12/22	1420	N/A	W	3	U	HCL	X	
7	EW-46	12/22	1430	N/A	W	3	U	HCL	X	
8	EW-4	12/22	1540	N/A	W	3	U	HCL	X	
	TOTAL	X	X	X	X	22	X	X	8	

12/22/2008

RUSH

RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:
	1600 12/22/08		1600 12/22/08
RELINQUISHED BY: TH	TIME/DATE: 1655 12/22/08	RECEIVED BY: (COMPANY):	TIME/DATE: 12/22/08 16:55
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT: Y N Temp 2.4°C

IF SEALED, SEAL INTEGRITY: INTACT: Y N

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

Login Sample Receipt Check List

Client: ENVIRON International Corp.

Job Number: 720-17440-1

Login Number: 17440
Creator: Bullock, Tracy
List Number: 1

List Source: TestAmerica San Francisco

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 720-17441-1

Job Description: Hitachi GST

For:
ENVIRON International Corp.
6001 Shellmound Street
Suite 700
Emeryville, CA 94608

Attention: Ms. Anne Gates

//original signed by//

Approved for release.
Dimple Sharma
Project Manager I
12/23/2008 12:00 PM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
12/23/2008

cc: Mr. Chris Ritchie

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ENVIRON International Corp. Job Number: 720-17441-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ENVIRON International Corp. Job Number: 720-17441-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SF	SW846 8260B	
Purge and Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ENVIRON International Corp. Job Number: 720-17441-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-17441-1	SG-028J-39A-EB	Water	12/22/2008 1215	12/22/2008 1655

Analytical Data

Client: ENVIRON International Corp.

Job Number: 720-17441-1

Client Sample ID: SG-028J-39A-EB

Lab Sample ID: 720-17441-1
Client Matrix: Water

Date Sampled: 12/22/2008 1215
Date Received: 12/22/2008 1655

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/22/2008 2014
Date Prepared: 12/22/2008 2014

Analysis Batch: 720-45227

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122208\SA-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	ND		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 131
1,2-Dichloroethane-d4 (Surr)	99	76 - 132
Toluene-d8 (Surr)	101	82 - 120

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: ENVIRON International Corp. Job Number: 720-17441-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-45227					
LCS 720-45227/2	Lab Control Spike	T	Water	8260B	
LCSD 720-45227/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-45227/3	Method Blank	T	Water	8260B	
720-17363-C-4 MS	Matrix Spike	T	Water	8260B	
720-17363-D-4 MSD	Matrix Spike Duplicate	T	Water	8260B	
720-17441-1	SG-028J-39A-EB	T	Water	8260B	

Report Basis
T = Total

Client: ENVIRON International Corp.

Job Number: 720-17441-1

Method Blank - Batch: 720-45227

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-45227/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2008 1335
Date Prepared: 12/22/2008 1335

Analysis Batch: 720-45227
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122208\MB-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Chlorobenzene	ND		0.50
Chloroform	ND		1.0
1,1-Dichloroethene	ND		0.50
Toluene	ND		0.50
Trichloroethene	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	74 - 131
1,2-Dichloroethane-d4 (Surr)	97	76 - 132
Toluene-d8 (Surr)	99	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp. Job Number: 720-17441-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-45227

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-45227/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2008 1229
Date Prepared: 12/22/2008 1229

Analysis Batch: 720-45227
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122208\LS-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-45227/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2008 1302
Date Prepared: 12/22/2008 1302

Analysis Batch: 720-45227
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122208\LD-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	93	97	70 - 130	4	20		
Chlorobenzene	103	105	70 - 130	2	20		
1,1-Dichloroethene	97	99	70 - 130	2	20		
Toluene	91	99	70 - 130	8	20		
Trichloroethene	88	95	70 - 130	7	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	101	101	74 - 131
1,2-Dichloroethane-d4 (Surr)	89	92	76 - 132
Toluene-d8 (Surr)	92	98	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-17441-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-45227

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-17363-C-4 MS	Analysis Batch: 720-45227	Instrument ID: Varian 3900F
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: e:\200812\122208\SA-WA
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/22/2008 1728		Final Weight/Volume: 40 mL
Date Prepared:	12/22/2008 1728		

MSD Lab Sample ID:	720-17363-D-4 MSD	Analysis Batch: 720-45227	Instrument ID: Varian 3900F
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: e:\200812\122208\SA-WA
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/22/2008 1801		Final Weight/Volume: 40 mL
Date Prepared:	12/22/2008 1801		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	86	90	70 - 130	4	20		
Chlorobenzene	97	102	70 - 130	5	20		
1,1-Dichloroethene	82	91	70 - 130	10	20		
Toluene	88	92	70 - 130	4	20		
Trichloroethene	84	86	70 - 130	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	100	99	74 - 131
1,2-Dichloroethane-d4 (Surr)	83	90	76 - 132
Toluene-d8 (Surr)	90	91	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

720-17441

ENVIRON

6001 Shellmound Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

CHAIN-of-CUSTODY

113924 01639

PAGE 1 of 1

PROJECT NAME / FACILITY ID: HITACHI

FIELD PERSON:

PROJECT NUMBER: 03-11903E

DATE: 12/22/08

PROJECT MANAGER: ANNE GATES

PROJECT LOCATION: 5600 Cottle Rd, San Jose, CA

LABORATORY: TEST AMERICA INC.

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y (N) IF YES, GLOBAL ID #: WO#:

SAMPLER: ROSS RUSSELL

SIGNATURE:

SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 2008)	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: Chloroform (8260B)	COMMENTS
SG-028J-39A-EB	12/22	1215	N/A	W	2	U	HCL	X	
TOTAL	X	X	X	X	2	X	X	1	

RUSH

12/22/08

RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:
	16:00 12/22/08	(COMPANY):	1600 12/22/08
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:
	12/22/08	(COMPANY):	
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:
		(COMPANY):	

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY — INTACT: Y N Temp 2.4°C

IF SEALED, SEAL INTEGRITY — INTACT: Y N

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

Login Sample Receipt Check List

Client: ENVIRON International Corp.

Job Number: 720-17441-1

Login Number: 17441
Creator: Bullock, Tracy
List Number: 1

List Source: TestAmerica San Francisco

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 720-17446-1

Job Description: Hitachi GST

For:
ENVIRON International Corp.
6001 Shellmound Street
Suite 700
Emeryville, CA 94608

Attention: Ms. Anne Gates

//original signed by//

Approved for release.
Dimple Sharma
Project Manager I
12/23/2008 3:06 PM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
12/23/2008

cc: Mr. Chris Ritchie

Comments
No additional comments.

Receipt
The container label for the following sample(s) did not match the information listed on the Chain-of-custody (COC): One of three vials does not have a label, all three vials received in the same ziploc bag. The COC lists EW-10.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ENVIRON International Corp. Job Number: 720-17446-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-17446-1	**EW-10**				
Chloroform		83	4.0	ug/L	8260B

METHOD SUMMARY

Client: ENVIRON International Corp. Job Number: 720-17446-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SF	SW846 8260B	
Purge and Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ENVIRON International Corp. Job Number: 720-17446-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-17446-1	EW-10	Water	12/22/2008 1732	12/22/2008 1933
720-17446-2TB	EW-10-TB	Water	12/22/2008 1700	12/22/2008 1933

Analytical Data

Client: ENVIRON International Corp.

Job Number: 720-17446-1

Client Sample ID: EW-10

Lab Sample ID: 720-17446-1
Client Matrix: Water

Date Sampled: 12/22/2008 1732
Date Received: 12/22/2008 1933

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 12/23/2008 1102
Date Prepared: 12/23/2008 1102

Analysis Batch: 720-45246

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122308\SA-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	83		4.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 131
1,2-Dichloroethane-d4 (Surr)	98	76 - 132
Toluene-d8 (Surr)	96	82 - 120

Analytical Data

Client: ENVIRON International Corp.

Job Number: 720-17446-1

Client Sample ID: EW-10-TB

Lab Sample ID: 720-17446-2TB
Client Matrix: Water

Date Sampled: 12/22/2008 1700
Date Received: 12/22/2008 1933

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/23/2008 1029
Date Prepared: 12/23/2008 1029

Analysis Batch: 720-45246

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122308\SA-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	ND		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 131
1,2-Dichloroethane-d4 (Surr)	91	76 - 132
Toluene-d8 (Surr)	99	82 - 120

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: ENVIRON International Corp. Job Number: 720-17446-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-45246					
LCS 720-45246/2	Lab Control Spike	T	Water	8260B	
LCSD 720-45246/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-45246/3	Method Blank	T	Water	8260B	
720-17446-1	EW-10	T	Water	8260B	
720-17446-2TB	EW-10-TB	T	Water	8260B	

Report Basis
T = Total

Client: ENVIRON International Corp.

Job Number: 720-17446-1

Method Blank - Batch: 720-45246

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-45246/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/23/2008 0939
Date Prepared: 12/23/2008 0939

Analysis Batch: 720-45246
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122308\MB-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Chlorobenzene	ND		0.50
Chloroform	ND		1.0
1,1-Dichloroethene	ND		0.50
Toluene	ND		0.50
Trichloroethene	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 131
1,2-Dichloroethane-d4 (Surr)	99	76 - 132
Toluene-d8 (Surr)	101	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-17446-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-45246

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-45246/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/23/2008 0833
Date Prepared: 12/23/2008 0833

Analysis Batch: 720-45246
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122308\LS-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-45246/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/23/2008 0906
Date Prepared: 12/23/2008 0906

Analysis Batch: 720-45246
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\122308\LD-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	102	97	70 - 130	5	20		
Chlorobenzene	110	107	70 - 130	3	20		
1,1-Dichloroethene	102	102	70 - 130	1	20		
Toluene	100	101	70 - 130	1	20		
Trichloroethene	96	96	70 - 130	0	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	103	106	74 - 131
1,2-Dichloroethane-d4 (Surr)	93	97	76 - 132
Toluene-d8 (Surr)	100	100	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

ENVIRON
6001 Shellmound Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

720-17446

CHAIN-of-CUSTODY

113929

01355

PAGE 1 of 1

PROJECT NAME / FACILITY ID: Hitachi

FIELD PERSON: Ross Russell

PROJECT NUMBER: 03-11903E

DATE: 12/22/2008

PROJECT MANAGER: Anne Gates

PROJECT LOCATION: 5600 Cottle Rd, San Jose, CA

LABORATORY: Test

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y (N) IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: Ross Russell

SIGNATURE: [illegible]

SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 2008)	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: Chloroform (8260B)								COMMENTS
EW-10	12/22	17:32	N/A	W	3	U	HCL	X								
EW-10-TB	12/22	17:00	N/A	W	2	U	HCL	X								
TOTAL	X	X	X	X	5	X	X	2								

12/22/2008

RUSH

RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:
[illegible]	19:53/12/22/08	D. [illegible] (COMPANY): [illegible]	12/22/08 19:33
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, ~~48 HOURS~~, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: < 4HRS

INTACT: Y N Temp. 7.9°C

IF SEALED, SEAL INTEGRITY: INTACT: Y N

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

Login Sample Receipt Check List

Client: ENVIRON International Corp.

Job Number: 720-17446-1

Login Number: 17446
Creator: Bullock, Tracy
List Number: 1

List Source: TestAmerica San Francisco

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Appendix B:
Soil Gas Analytical Laboratory Reports

December 2008

Contents

This appendix presents the laboratory analytical reports for samples collected from soil gas in the former Building 028J area in December 2008. The reports included herein are as follows:

Calscience Environmental Laboratories, Inc. Work Order No. 08-12-2292

Calscience Environmental Laboratories, Inc. Work Order No. 08-12-2404

Calscience Environmental Laboratories, Inc. Work Order No. 08-12-2405

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

December 31, 2008

The original report has been revised/corrected.

Anne Gates
ENVIRON
6001 Shellmound Street, Ste 700
Emeryville, CA 94608-1958

Subject: **Calscience Work Order No.: 08-12-2292**
Client Reference: Hitachi - GST / 03-11903E

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/23/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

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

Sincerely,

//original signed by//

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/23/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2292
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-27-15	**08-12-2292-1-A**	**12/22/08 14:48**	**Air**	**GC/MS AA**	**N/A**	**12/23/08 16:14**	**081223L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.19	0.030	6.4		t-1,3-Dichloropropene	ND	0.0073	1.6	
Benzene	0.044	0.0026	1.6		Ethyl-t-Butyl Ether (ETBE)	ND	0.013	1.6	
Benzyl Chloride	ND	0.0083	1.6		Ethylbenzene	0.072	0.0035	1.6	
Bromodichloromethane	ND	0.0054	1.6		4-Ethyltoluene	0.028	0.0039	1.6	
Bromoform	ND	0.0083	1.6		Hexachloro-1,3-Butadiene	ND	0.017	1.6	
Bromomethane	ND	0.0031	1.6		2-Hexanone	0.0097	0.0066	1.6	
2-Butanone	0.046	0.0047	1.6		Methyl-t-Butyl Ether (MTBE)	ND	0.012	1.6	
Carbon Disulfide	0.012	0.0025	1.6		Methylene Chloride	ND	0.028	1.6	
Carbon Tetrachloride	ND	0.0050	1.6		4-Methyl-2-Pentanone	0.30	0.0066	1.6	
Chlorobenzene	ND	0.0037	1.6		o-Xylene	0.11	0.0035	1.6	
Chloroethane	ND	0.0021	1.6		p/m-Xylene	0.26	0.014	1.6	
Chloroform	0.23	0.0039	1.6		Styrene	ND	0.0068	1.6	
Chloromethane	0.0031	0.0017	1.6		Tert-Amyl-Methyl Ether (TAME)	ND	0.013	1.6	
Dibromochloromethane	ND	0.0068	1.6		Tert-Butyl Alcohol (TBA)	ND	0.0097	1.6	
Dichlorodifluoromethane	ND	0.0040	1.6		Tetrachloroethene	ND	0.0054	1.6	
Diisopropyl Ether (DIPE)	ND	0.013	1.6		Toluene	0.27	0.012	6.4	
1,1-Dichloroethane	ND	0.0032	1.6		Trichloroethene	0.0078	0.0043	1.6	
1,1-Dichloroethene	0.0093	0.0032	1.6		Trichlorofluoromethane	0.013	0.0090	1.6	
1,2-Dibromoethane	ND	0.0061	1.6		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.012	0.012	1.6	
Dichlorotetrafluoroethane	ND	0.022	1.6		1,1,1-Trichloroethane	0.013	0.0044	1.6	
1,2-Dichlorobenzene	ND	0.0048	1.6		1,1,2-Trichloroethane	ND	0.0044	1.6	
1,2-Dichloroethane	ND	0.0032	1.6		1,3,5-Trimethylbenzene	0.034	0.0039	1.6	
1,2-Dichloropropane	ND	0.0037	1.6		1,1,2,2-Tetrachloroethane	ND	0.011	1.6	
1,3-Dichlorobenzene	ND	0.0048	1.6		1,2,4-Trimethylbenzene	0.096	0.0079	1.6	
1,4-Dichlorobenzene	ND	0.0048	1.6		1,2,4-Trichlorobenzene	ND	0.024	1.6	
c-1,3-Dichloropropene	ND	0.0036	1.6		Vinyl Acetate	ND	0.011	1.6	
c-1,2-Dichloroethene	ND	0.0032	1.6		Vinyl Chloride	ND	0.0020	1.6	
t-1,2-Dichloroethene	ND	0.0032	1.6		1,1-Difluoroethane	ND	0.0086	1.6	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	100	57-129		1,2-Dichloroethane-d4	104	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/23/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2292
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-27-5	**08-12-2292-2-A**	**12/22/08 15:09**	**Air**	**GC/MS AA**	**N/A**	**12/23/08 17:02**	**081223L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.13	0.0078	1.65		t-1,3-Dichloropropene	ND	0.0075	1.65	
Benzene	0.024	0.0026	1.65		Ethyl-t-Butyl Ether (ETBE)	ND	0.014	1.65	
Benzyl Chloride	ND	0.0085	1.65		Ethylbenzene	0.035	0.0036	1.65	
Bromodichloromethane	ND	0.0055	1.65		4-Ethyltoluene	0.017	0.0041	1.65	
Bromoform	ND	0.0085	1.65		Hexachloro-1,3-Butadiene	ND	0.018	1.65	
Bromomethane	ND	0.0032	1.65		2-Hexanone	0.020	0.0068	1.65	
2-Butanone	0.074	0.0049	1.65		Methyl-t-Butyl Ether (MTBE)	ND	0.012	1.65	
Carbon Disulfide	0.045	0.0026	1.65		Methylene Chloride	ND	0.029	1.65	
Carbon Tetrachloride	ND	0.0052	1.65		4-Methyl-2-Pentanone	0.71	0.068	16.5	
Chlorobenzene	ND	0.0038	1.65		o-Xylene	0.048	0.0036	1.65	
Chloroethane	ND	0.0022	1.65		p/m-Xylene	0.12	0.014	1.65	
Chloroform	0.13	0.0040	1.65		Styrene	ND	0.0070	1.65	
Chloromethane	ND	0.0017	1.65		Tert-Amyl-Methyl Ether (TAME)	ND	0.014	1.65	
Dibromochloromethane	ND	0.0070	1.65		Tert-Butyl Alcohol (TBA)	ND	0.010	1.65	
Dichlorodifluoromethane	ND	0.0041	1.65		Tetrachloroethene	ND	0.0056	1.65	
Diisopropyl Ether (DIPE)	ND	0.014	1.65		Toluene	0.16	0.0031	1.65	
1,1-Dichloroethane	ND	0.0033	1.65		Trichloroethene	ND	0.0044	1.65	
1,1-Dichloroethene	0.0058	0.0033	1.65		Trichlorofluoromethane	ND	0.0093	1.65	
1,2-Dibromoethane	ND	0.0063	1.65		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.013	1.65	
Dichlorotetrafluoroethane	ND	0.023	1.65		1,1,1-Trichloroethane	0.0080	0.0045	1.65	
1,2-Dichlorobenzene	ND	0.0050	1.65		1,1,2-Trichloroethane	ND	0.0045	1.65	
1,2-Dichloroethane	ND	0.0033	1.65		1,3,5-Trimethylbenzene	0.020	0.0041	1.65	
1,2-Dichloropropane	ND	0.0038	1.65		1,1,2,2-Tetrachloroethane	ND	0.011	1.65	
1,3-Dichlorobenzene	ND	0.0050	1.65		1,2,4-Trimethylbenzene	0.065	0.0081	1.65	
1,4-Dichlorobenzene	ND	0.0050	1.65		1,2,4-Trichlorobenzene	ND	0.024	1.65	
c-1,3-Dichloropropene	ND	0.0037	1.65		Vinyl Acetate	ND	0.012	1.65	
c-1,2-Dichloroethene	ND	0.0033	1.65		Vinyl Chloride	ND	0.0021	1.65	
t-1,2-Dichloroethene	ND	0.0033	1.65		1,1-Difluoroethane	ND	0.0089	1.65	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	57-129		1,2-Dichloroethane-d4	87	47-137	
Toluene-d8	102	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/23/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2292
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-27-9.5	**08-12-2292-3-A**	**12/22/08 15:35**	**Air**	**GC/MS AA**	**N/A**	**12/23/08 17:49**	**081223L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.055	0.0077	1.63		t-1,3-Dichloropropene	ND	0.0074	1.63	
Benzene	0.0056	0.0026	1.63		Ethyl-t-Butyl Ether (ETBE)	ND	0.014	1.63	
Benzyl Chloride	ND	0.0084	1.63		Ethylbenzene	0.0069	0.0035	1.63	
Bromodichloromethane	ND	0.0055	1.63		4-Ethyltoluene	ND	0.0040	1.63	
Bromoform	ND	0.0084	1.63		Hexachloro-1,3-Butadiene	ND	0.017	1.63	
Bromomethane	ND	0.0032	1.63		2-Hexanone	0.016	0.0067	1.63	
2-Butanone	0.040	0.0048	1.63		Methyl-t-Butyl Ether (MTBE)	ND	0.012	1.63	
Carbon Disulfide	ND	0.0025	1.63		Methylene Chloride	ND	0.028	1.63	
Carbon Tetrachloride	ND	0.0051	1.63		4-Methyl-2-Pentanone	0.45	0.067	16.3	
Chlorobenzene	ND	0.0038	1.63		o-Xylene	0.0087	0.0035	1.63	
Chloroethane	ND	0.0022	1.63		p/m-Xylene	0.023	0.014	1.63	
Chloroform	0.66	0.040	16.3		Styrene	ND	0.0069	1.63	
Chloromethane	ND	0.0017	1.63		Tert-Amyl-Methyl Ether (TAME)	ND	0.014	1.63	
Dibromochloromethane	ND	0.0069	1.63		Tert-Butyl Alcohol (TBA)	ND	0.0099	1.63	
Dichlorodifluoromethane	ND	0.0040	1.63		Tetrachloroethene	ND	0.0055	1.63	
Diisopropyl Ether (DIPE)	ND	0.014	1.63		Toluene	0.029	0.0031	1.63	
1,1-Dichloroethane	ND	0.0033	1.63		Trichloroethene	0.022	0.0044	1.63	
1,1-Dichloroethene	0.015	0.0032	1.63		Trichlorofluoromethane	ND	0.0092	1.63	
1,2-Dibromoethane	ND	0.0063	1.63		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.012	1.63	
Dichlorotetrafluoroethane	ND	0.023	1.63		1,1,1-Trichloroethane	0.033	0.0044	1.63	
1,2-Dichlorobenzene	ND	0.0049	1.63		1,1,2-Trichloroethane	ND	0.0044	1.63	
1,2-Dichloroethane	ND	0.0033	1.63		1,3,5-Trimethylbenzene	0.0044	0.0040	1.63	
1,2-Dichloropropane	ND	0.0038	1.63		1,1,2,2-Tetrachloroethane	ND	0.011	1.63	
1,3-Dichlorobenzene	ND	0.0049	1.63		1,2,4-Trimethylbenzene	0.014	0.0080	1.63	
1,4-Dichlorobenzene	ND	0.0049	1.63		1,2,4-Trichlorobenzene	ND	0.024	1.63	
c-1,3-Dichloropropene	ND	0.0037	1.63		Vinyl Acetate	ND	0.011	1.63	
c-1,2-Dichloroethene	ND	0.0032	1.63		Vinyl Chloride	ND	0.0021	1.63	
t-1,2-Dichloroethene	ND	0.0032	1.63		1,1-Difluoroethane	ND	0.0088	1.63	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	57-129		1,2-Dichloroethane-d4	82	47-137	
Toluene-d8	103	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/23/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2292
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-38-23	**08-12-2292-4-A**	**12/22/08 16:30**	**Air**	**GC/MS DD**	**N/A**	**12/24/08 00:56**	**081223L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.11	0.0079	1.67		t-1,3-Dichloropropene	ND	0.0076	1.67	
Benzene	0.017	0.0027	1.67		Ethyl-t-Butyl Ether (ETBE)	ND	0.014	1.67	
Benzyl Chloride	ND	0.0086	1.67		Ethylbenzene	0.018	0.0036	1.67	
Bromodichloromethane	ND	0.0056	1.67		4-Ethyltoluene	ND	0.0041	1.67	
Bromoform	ND	0.0086	1.67		Hexachloro-1,3-Butadiene	ND	0.018	1.67	
Bromomethane	ND	0.0032	1.67		2-Hexanone	0.012	0.0068	1.67	
2-Butanone	0.053	0.0049	1.67		Methyl-t-Butyl Ether (MTBE)	ND	0.012	1.67	
Carbon Disulfide	0.0043	0.0026	1.67		Methylene Chloride	ND	0.029	1.67	
Carbon Tetrachloride	0.010	0.0053	1.67		4-Methyl-2-Pentanone	0.26	0.17	41.8	
Chlorobenzene	ND	0.0038	1.67		o-Xylene	0.020	0.0036	1.67	
Chloroethane	ND	0.0022	1.67		p/m-Xylene	0.060	0.015	1.67	
Chloroform	2.0	0.10	41.8		Styrene	ND	0.0071	1.67	
Chloromethane	0.0018	0.0017	1.67		Tert-Amyl-Methyl Ether (TAME)	ND	0.014	1.67	
Dibromochloromethane	ND	0.0071	1.67		Tert-Butyl Alcohol (TBA)	0.010	0.010	1.67	
Dichlorodifluoromethane	ND	0.0041	1.67		Tetrachloroethene	ND	0.0057	1.67	
Diisopropyl Ether (DIPE)	ND	0.014	1.67		Toluene	0.098	0.0031	1.67	
1,1-Dichloroethane	0.0043	0.0034	1.67		Trichloroethene	0.14	0.0045	1.67	
1,1-Dichloroethene	ND	0.0033	1.67		Trichlorofluoromethane	0.013	0.0094	1.67	
1,2-Dibromoethane	ND	0.0064	1.67		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.016	0.013	1.67	
Dichlorotetrafluoroethane	ND	0.023	1.67		1,1,1-Trichloroethane	0.085	0.0046	1.67	
1,2-Dichlorobenzene	ND	0.0050	1.67		1,1,2-Trichloroethane	ND	0.0046	1.67	
1,2-Dichloroethane	ND	0.0034	1.67		1,3,5-Trimethylbenzene	0.0064	0.0041	1.67	
1,2-Dichloropropane	ND	0.0039	1.67		1,1,2,2-Tetrachloroethane	ND	0.011	1.67	
1,3-Dichlorobenzene	ND	0.0050	1.67		1,2,4-Trimethylbenzene	0.017	0.0082	1.67	
1,4-Dichlorobenzene	ND	0.0050	1.67		1,2,4-Trichlorobenzene	ND	0.025	1.67	
c-1,3-Dichloropropene	ND	0.0038	1.67		Vinyl Acetate	ND	0.012	1.67	
c-1,2-Dichloroethene	ND	0.0033	1.67		Vinyl Chloride	ND	0.0021	1.67	
t-1,2-Dichloroethene	0.14	0.0033	1.67		1,1-Difluoroethane	3.5	0.23	41.8	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	87	57-129		1,2-Dichloroethane-d4	108	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/23/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2292
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-98-23	**08-12-2292-5-A**	**12/22/08 16:30**	**Air**	**GC/MS DD**	**N/A**	**12/24/08 01:48**	**081223L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.11	0.0077	1.62		t-1,3-Dichloropropene	ND	0.0074	1.62	
Benzene	0.017	0.0026	1.62		Ethyl-t-Butyl Ether (ETBE)	ND	0.014	1.62	
Benzyl Chloride	ND	0.0084	1.62		Ethylbenzene	0.019	0.0035	1.62	
Bromodichloromethane	ND	0.0054	1.62		4-Ethyltoluene	ND	0.0040	1.62	
Bromoform	ND	0.0084	1.62		Hexachloro-1,3-Butadiene	ND	0.017	1.62	
Bromomethane	ND	0.0031	1.62		2-Hexanone	0.011	0.0066	1.62	
2-Butanone	0.052	0.0048	1.62		Methyl-t-Butyl Ether (MTBE)	ND	0.012	1.62	
Carbon Disulfide	0.0044	0.0025	1.62		Methylene Chloride	ND	0.028	1.62	
Carbon Tetrachloride	0.010	0.0051	1.62		4-Methyl-2-Pentanone	0.40	0.17	40.5	
Chlorobenzene	ND	0.0037	1.62		o-Xylene	0.021	0.0035	1.62	
Chloroethane	ND	0.0021	1.62		p/m-Xylene	0.061	0.014	1.62	
Chloroform	2.5	0.099	40.5		Styrene	ND	0.0069	1.62	
Chloromethane	ND	0.0017	1.62		Tert-Amyl-Methyl Ether (TAME)	ND	0.014	1.62	
Dibromochloromethane	ND	0.0069	1.62		Tert-Butyl Alcohol (TBA)	0.010	0.0098	1.62	
Dichlorodifluoromethane	ND	0.0040	1.62		Tetrachloroethene	ND	0.0055	1.62	
Diisopropyl Ether (DIPE)	ND	0.014	1.62		Toluene	0.10	0.0031	1.62	
1,1-Dichloroethane	0.0044	0.0033	1.62		Trichloroethene	0.14	0.0044	1.62	
1,1-Dichloroethene	ND	0.0032	1.62		Trichlorofluoromethane	0.012	0.0091	1.62	
1,2-Dibromoethane	ND	0.0062	1.62		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.016	0.012	1.62	
Dichlorotetrafluoroethane	ND	0.023	1.62		1,1,1-Trichloroethane	0.085	0.0044	1.62	
1,2-Dichlorobenzene	ND	0.0049	1.62		1,1,2-Trichloroethane	ND	0.0044	1.62	
1,2-Dichloroethane	ND	0.0033	1.62		1,3,5-Trimethylbenzene	0.0064	0.0040	1.62	
1,2-Dichloropropane	ND	0.0037	1.62		1,1,2,2-Tetrachloroethane	ND	0.011	1.62	
1,3-Dichlorobenzene	ND	0.0049	1.62		1,2,4-Trimethylbenzene	0.016	0.0080	1.62	
1,4-Dichlorobenzene	ND	0.0049	1.62		1,2,4-Trichlorobenzene	ND	0.024	1.62	
c-1,3-Dichloropropene	ND	0.0037	1.62		Vinyl Acetate	ND	0.011	1.62	
c-1,2-Dichloroethene	ND	0.0032	1.62		Vinyl Chloride	ND	0.0021	1.62	
t-1,2-Dichloroethene	0.14	0.0032	1.62		1,1-Difluoroethane	4.5	0.22	40.5	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	86	57-129		1,2-Dichloroethane-d4	106	47-137	
Toluene-d8	95	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/23/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2292
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TRIP BLANK	**08-12-2292-6-A**	**12/22/08 00:00**	**Air**	**GC/MS AA**	**N/A**	**12/23/08 15:26**	**081223L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	0.0048	1		t-1,3-Dichloropropene	ND	0.0045	1	
Benzene	ND	0.0016	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1	
Benzyl Chloride	ND	0.0052	1		Ethylbenzene	ND	0.0022	1	
Bromodichloromethane	ND	0.0034	1		4-Ethyltoluene	ND	0.0025	1	
Bromoform	ND	0.0052	1		Hexachloro-1,3-Butadiene	ND	0.011	1	
Bromomethane	ND	0.0019	1		2-Hexanone	ND	0.0041	1	
2-Butanone	ND	0.0029	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1	
Carbon Disulfide	ND	0.0016	1		Methylene Chloride	ND	0.017	1	
Carbon Tetrachloride	ND	0.0031	1		4-Methyl-2-Pentanone	ND	0.0041	1	
Chlorobenzene	ND	0.0023	1		o-Xylene	ND	0.0022	1	
Chloroethane	ND	0.0013	1		p/m-Xylene	ND	0.0087	1	
Chloroform	ND	0.0024	1		Styrene	ND	0.0043	1	
Chloromethane	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1	
Dibromochloromethane	ND	0.0043	1		Tert-Butyl Alcohol (TBA)	ND	0.0061	1	
Dichlorodifluoromethane	ND	0.0025	1		Tetrachloroethene	ND	0.0034	1	
Diisopropyl Ether (DIPE)	ND	0.0084	1		Toluene	ND	0.0019	1	
1,1-Dichloroethane	ND	0.0020	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		Trichlorofluoromethane	ND	0.0056	1	
1,2-Dibromoethane	ND	0.0038	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0077	1	
Dichlorotetrafluoroethane	ND	0.014	1		1,1,1-Trichloroethane	ND	0.0027	1	
1,2-Dichlorobenzene	ND	0.0030	1		1,1,2-Trichloroethane	ND	0.0027	1	
1,2-Dichloroethane	ND	0.0020	1		1,3,5-Trimethylbenzene	ND	0.0025	1	
1,2-Dichloropropane	ND	0.0023	1		1,1,2,2-Tetrachloroethane	ND	0.0069	1	
1,3-Dichlorobenzene	ND	0.0030	1		1,2,4-Trimethylbenzene	ND	0.0049	1	
1,4-Dichlorobenzene	ND	0.0030	1		1,2,4-Trichlorobenzene	ND	0.015	1	
c-1,3-Dichloropropene	ND	0.0023	1		Vinyl Acetate	ND	0.0070	1	
c-1,2-Dichloroethene	ND	0.0020	1		Vinyl Chloride	ND	0.0013	1	
t-1,2-Dichloroethene	ND	0.0020	1		1,1-Difluoroethane	ND	0.0054	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	57-129		1,2-Dichloroethane-d4	110	47-137	
Toluene-d8	98	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/23/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2292
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-7,040**	**N/A**	**Air**	**GC/MS DD**	**N/A**	**12/23/08 17:51**	**081223L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	0.0048	1		t-1,3-Dichloropropene	ND	0.0045	1	
Benzene	ND	0.0016	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1	
Benzyl Chloride	ND	0.0052	1		Ethylbenzene	ND	0.0022	1	
Bromodichloromethane	ND	0.0034	1		4-Ethyltoluene	ND	0.0025	1	
Bromoform	ND	0.0052	1		Hexachloro-1,3-Butadiene	ND	0.011	1	
Bromomethane	ND	0.0019	1		2-Hexanone	ND	0.0041	1	
2-Butanone	ND	0.0029	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1	
Carbon Disulfide	ND	0.0016	1		Methylene Chloride	ND	0.017	1	
Carbon Tetrachloride	ND	0.0031	1		4-Methyl-2-Pentanone	ND	0.0041	1	
Chlorobenzene	ND	0.0023	1		o-Xylene	ND	0.0022	1	
Chloroethane	ND	0.0013	1		p/m-Xylene	ND	0.0087	1	
Chloroform	ND	0.0024	1		Styrene	ND	0.0043	1	
Chloromethane	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1	
Dibromochloromethane	ND	0.0043	1		Tert-Butyl Alcohol (TBA)	ND	0.0061	1	
Dichlorodifluoromethane	ND	0.0025	1		Tetrachloroethene	ND	0.0034	1	
Diisopropyl Ether (DIPE)	ND	0.0084	1		Toluene	ND	0.0019	1	
1,1-Dichloroethane	ND	0.0020	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		Trichlorofluoromethane	ND	0.0056	1	
1,2-Dibromoethane	ND	0.0038	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0077	1	
Dichlorotetrafluoroethane	ND	0.014	1		1,1,1-Trichloroethane	ND	0.0027	1	
1,2-Dichlorobenzene	ND	0.0030	1		1,1,2-Trichloroethane	ND	0.0027	1	
1,2-Dichloroethane	ND	0.0020	1		1,3,5-Trimethylbenzene	ND	0.0025	1	
1,2-Dichloropropane	ND	0.0023	1		1,1,2,2-Tetrachloroethane	ND	0.0069	1	
1,3-Dichlorobenzene	ND	0.0030	1		1,2,4-Trimethylbenzene	ND	0.0049	1	
1,4-Dichlorobenzene	ND	0.0030	1		1,2,4-Trichlorobenzene	ND	0.015	1	
c-1,3-Dichloropropene	ND	0.0023	1		Vinyl Acetate	ND	0.0070	1	
c-1,2-Dichloroethene	ND	0.0020	1		Vinyl Chloride	ND	0.0013	1	
t-1,2-Dichloroethene	ND	0.0020	1		1,1-Difluoroethane	ND	0.0054	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	57-129		1,2-Dichloroethane-d4	111	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/23/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2292
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-7,042**	**N/A**	**Air**	**GC/MS AA**	**N/A**	**12/23/08 14:39**	**081223L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	0.0048	1		t-1,3-Dichloropropene	ND	0.0045	1	
Benzene	ND	0.0016	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1	
Benzyl Chloride	ND	0.0052	1		Ethylbenzene	ND	0.0022	1	
Bromodichloromethane	ND	0.0034	1		4-Ethyltoluene	ND	0.0025	1	
Bromoform	ND	0.0052	1		Hexachloro-1,3-Butadiene	ND	0.011	1	
Bromomethane	ND	0.0019	1		2-Hexanone	ND	0.0041	1	
2-Butanone	ND	0.0029	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1	
Carbon Disulfide	ND	0.0016	1		Methylene Chloride	ND	0.017	1	
Carbon Tetrachloride	ND	0.0031	1		4-Methyl-2-Pentanone	ND	0.0041	1	
Chlorobenzene	ND	0.0023	1		o-Xylene	ND	0.0022	1	
Chloroethane	ND	0.0013	1		p/m-Xylene	ND	0.0087	1	
Chloroform	ND	0.0024	1		Styrene	ND	0.0043	1	
Chloromethane	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1	
Dibromochloromethane	ND	0.0043	1		Tert-Butyl Alcohol (TBA)	ND	0.0061	1	
Dichlorodifluoromethane	ND	0.0025	1		Tetrachloroethene	ND	0.0034	1	
Diisopropyl Ether (DIPE)	ND	0.0084	1		Toluene	ND	0.0019	1	
1,1-Dichloroethane	ND	0.0020	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		Trichlorofluoromethane	ND	0.0056	1	
1,2-Dibromoethane	ND	0.0038	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0077	1	
Dichlorotetrafluoroethane	ND	0.014	1		1,1,1-Trichloroethane	ND	0.0027	1	
1,2-Dichlorobenzene	ND	0.0030	1		1,1,2-Trichloroethane	ND	0.0027	1	
1,2-Dichloroethane	ND	0.0020	1		1,3,5-Trimethylbenzene	ND	0.0025	1	
1,2-Dichloropropane	ND	0.0023	1		1,1,2,2-Tetrachloroethane	ND	0.0069	1	
1,3-Dichlorobenzene	ND	0.0030	1		1,2,4-Trimethylbenzene	ND	0.0049	1	
1,4-Dichlorobenzene	ND	0.0030	1		1,2,4-Trichlorobenzene	ND	0.015	1	
c-1,3-Dichloropropene	ND	0.0023	1		Vinyl Acetate	ND	0.0070	1	
c-1,2-Dichloroethene	ND	0.0020	1		Vinyl Chloride	ND	0.0013	1	
t-1,2-Dichloroethene	ND	0.0020	1		1,1-Difluoroethane	ND	0.0054	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	57-129		1,2-Dichloroethane-d4	107	47-137	
Toluene-d8	96	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/23/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2292
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-7,043**	**N/A**	**Air**	**GC/MS DD**	**N/A**	**12/24/08 11:54**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	0.0048	1		t-1,3-Dichloropropene	ND	0.0045	1	
Benzene	ND	0.0016	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1	
Benzyl Chloride	ND	0.0052	1		Ethylbenzene	ND	0.0022	1	
Bromodichloromethane	ND	0.0034	1		4-Ethyltoluene	ND	0.0025	1	
Bromoform	ND	0.0052	1		Hexachloro-1,3-Butadiene	ND	0.011	1	
Bromomethane	ND	0.0019	1		2-Hexanone	ND	0.0041	1	
2-Butanone	ND	0.0029	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1	
Carbon Disulfide	ND	0.0016	1		Methylene Chloride	ND	0.017	1	
Carbon Tetrachloride	ND	0.0031	1		4-Methyl-2-Pentanone	ND	0.0041	1	
Chlorobenzene	ND	0.0023	1		o-Xylene	ND	0.0022	1	
Chloroethane	ND	0.0013	1		p/m-Xylene	ND	0.0087	1	
Chloroform	ND	0.0024	1		Styrene	ND	0.0043	1	
Chloromethane	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1	
Dibromochloromethane	ND	0.0043	1		Tert-Butyl Alcohol (TBA)	ND	0.0061	1	
Dichlorodifluoromethane	ND	0.0025	1		Tetrachloroethene	ND	0.0034	1	
Diisopropyl Ether (DIPE)	ND	0.0084	1		Toluene	ND	0.0019	1	
1,1-Dichloroethane	ND	0.0020	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		Trichlorofluoromethane	ND	0.0056	1	
1,2-Dibromoethane	ND	0.0038	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0077	1	
Dichlorotetrafluoroethane	ND	0.014	1		1,1,1-Trichloroethane	ND	0.0027	1	
1,2-Dichlorobenzene	ND	0.0030	1		1,1,2-Trichloroethane	ND	0.0027	1	
1,2-Dichloroethane	ND	0.0020	1		1,3,5-Trimethylbenzene	ND	0.0025	1	
1,2-Dichloropropane	ND	0.0023	1		1,1,2,2-Tetrachloroethane	ND	0.0069	1	
1,3-Dichlorobenzene	ND	0.0030	1		1,2,4-Trimethylbenzene	ND	0.0049	1	
1,4-Dichlorobenzene	ND	0.0030	1		1,2,4-Trichlorobenzene	ND	0.015	1	
c-1,3-Dichloropropene	ND	0.0023	1		Vinyl Acetate	ND	0.0070	1	
c-1,2-Dichloroethene	ND	0.0020	1		Vinyl Chloride	ND	0.0013	1	
t-1,2-Dichloroethene	ND	0.0020	1		1,1-Difluoroethane	ND	0.0054	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	57-129		1,2-Dichloroethane-d4	110	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ENVIRON
6001 Shellmound Street, Ste 700
Emeryville, CA 94608-1958

Date Received: N/A
Work Order No: 08-12-2292
Preparation: N/A
Method: EPA TO-15

Project: Hitachi - GST / 03-11903E

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-7,042	**Air**	**GC/MS AA**	**N/A**	**12/23/08**	**081223L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	110	110	60-156	44-172	1	0-40	
Carbon Tetrachloride	103	100	64-154	49-169	2	0-32	
1,2-Dibromoethane	96	94	54-144	39-159	2	0-36	
1,2-Dichlorobenzene	79	76	34-160	13-181	3	0-47	
1,2-Dichloroethane	106	100	69-153	55-167	6	0-30	
1,2-Dichloropropane	110	111	67-157	52-172	0	0-35	
1,4-Dichlorobenzene	82	79	36-156	16-176	3	0-47	
c-1,3-Dichloropropene	119	118	61-157	45-173	1	0-35	
Ethylbenzene	108	105	52-154	35-171	3	0-38	
o-Xylene	104	100	52-148	36-164	4	0-38	
p/m-Xylene	103	99	42-156	23-175	4	0-41	
Tetrachloroethene	106	103	56-152	40-168	4	0-40	
Toluene	105	101	56-146	41-161	3	0-43	
Trichloroethene	107	106	63-159	47-175	1	0-34	
1,1,2-Trichloroethane	101	99	65-149	51-163	2	0-37	
Vinyl Chloride	108	113	45-177	23-199	5	0-36	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ENVIRON
6001 Shellmound Street, Ste 700
Emeryville, CA 94608-1958

Date Received: N/A
Work Order No: 08-12-2292
Preparation: N/A
Method: EPA TO-15

Project: Hitachi - GST / 03-11903E

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-7,040	**Air**	**GC/MS DD**	**N/A**	**12/23/08**	**081223L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	99	98	60-156	44-172	1	0-40	
Carbon Tetrachloride	118	116	64-154	49-169	2	0-32	
1,2-Dibromoethane	101	103	54-144	39-159	1	0-36	
1,2-Dichlorobenzene	98	103	34-160	13-181	5	0-47	
1,2-Dichloroethane	121	117	69-153	55-167	4	0-30	
1,2-Dichloropropane	101	98	67-157	52-172	3	0-35	
1,4-Dichlorobenzene	99	107	36-156	16-176	7	0-47	
c-1,3-Dichloropropene	103	103	61-157	45-173	0	0-35	
Ethylbenzene	100	102	52-154	35-171	3	0-38	
o-Xylene	99	102	52-148	36-164	3	0-38	
p/m-Xylene	98	101	42-156	23-175	3	0-41	
Tetrachloroethene	101	102	56-152	40-168	1	0-40	
Toluene	99	100	56-146	41-161	1	0-43	
Trichloroethene	107	105	63-159	47-175	1	0-34	
1,1,2-Trichloroethane	103	100	65-149	51-163	3	0-37	
Vinyl Chloride	115	110	45-177	23-199	5	0-36	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ENVIRON
6001 Shellmound Street, Ste 700
Emeryville, CA 94608-1958

Date Received: N/A
Work Order No: 08-12-2292
Preparation: N/A
Method: EPA TO-15

Project: Hitachi - GST / 03-11903E

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-7,043	**Air**	**GC/MS DD**	**N/A**	**12/24/08**	**081224L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	93	60-156	44-172	8	0-40	
Carbon Tetrachloride	115	106	64-154	49-169	9	0-32	
1,2-Dibromoethane	100	95	54-144	39-159	5	0-36	
1,2-Dichlorobenzene	96	91	34-160	13-181	5	0-47	
1,2-Dichloroethane	115	106	69-153	55-167	8	0-30	
1,2-Dichloropropane	102	95	67-157	52-172	7	0-35	
1,4-Dichlorobenzene	95	92	36-156	16-176	4	0-47	
c-1,3-Dichloropropene	101	96	61-157	45-173	5	0-35	
Ethylbenzene	99	92	52-154	35-171	7	0-38	
o-Xylene	97	91	52-148	36-164	7	0-38	
p/m-Xylene	97	90	42-156	23-175	7	0-41	
Tetrachloroethene	101	93	56-152	40-168	9	0-40	
Toluene	100	92	56-146	41-161	8	0-43	
Trichloroethene	106	99	63-159	47-175	7	0-34	
1,1,2-Trichloroethane	103	97	65-149	51-163	6	0-37	
Vinyl Chloride	113	103	45-177	23-199	9	0-36	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-12-2292

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

ENVIRON
6001 Shellmound Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

CHAIN-of-CUSTODY

2292

03199

PAGE 1 of 1

PROJECT NAME / FACILITY ID: Hitach

FIELD PERSON: D. Clark

PROJECT NUMBER: 03-11903E

DATE: 12/22/08

PROJECT MANAGER: Anne Gates

PROJECT LOCATION: 5600 Cottle Rd.

LABORATORY: Calscience

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y (N) IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: Dan Clark

SIGNATURE: [illegible]

	SAMPLE I.D. NUMBER	YEAR 2008 SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: TO-15 VOCs								COMMENTS
1	SG-028J-27-15	12/22	1448	15'	G	1	U	No	X								start: -30" Hg end: -4" Hg LC248
2	SG-028J-27-5	12/22	1509	5'	G	1	U	No	X								start: -29" Hg end: -4" Hg LC316
3	SG-028J-27-9.5	12/22	1535	9.5'	G	1	U	No	X								start: -30" Hg end: -2" Hg LC065
4	SG-028J-38-23	12/22	1630	23'	G	1	U	No	X								start: -28" Hg end: -4" Hg LC053
5	SG-028J-98-23	12/22	1630	23'	G	1	U	No	X								start: -28" Hg end: -4" Hg LC241
6	TRIP BLANK	12/22	N/A	N/A	G	1	U	No	X								pressure; +7.9" Hg LC411
																	Note: leak check is 1,1-difluoroethane
																	DC 12/22/08
	TOTAL	X	X	X	X	6	X	X	6								

RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:
[illegible]	1815 / 12/22/08	(COMPANY): FEDEX	1815 12/22/08
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY: FEDEX # 867518646267	TIME/DATE:	RECEIVED BY: [illegible] (COMPANY):	TIME/DATE: 10:30 12/23/08

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY — INTACT: Y N Temp_____

IF SEALED, SEAL INTEGRITY — INTACT: Y N

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-12-2292

SAMPLE RECEIPT FORM

~~Cooler~~ BOX 1 of 1

CLIENT: ENVIRON

DATE: 12/23/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature _____.____ °C - 0.2 °C (CF) = _____.____ °C ☐ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☑ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** PS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** PS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☐	☐	☑
Volatile analysis container(s) free of headspace.....	☐	☐	☑
Tedlar bag(s) free of condensation.....	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOAh ☐VOAna$_2$ ☐125AGB ☐125AGBh ☐125AGBpo$_4$ ☐1AGB ☐1AGBna$_2$ ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna$_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☑Summa® ☐_____

Checked/Labeled by: PS

Reviewed by: WSC

Scanned by: PS

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na$_2$:$Na_2S_2O_3$ na:NaOH po$_4$:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

December 31, 2008

The original report has been revised/corrected.

Anne Gates
ENVIRON
6001 Shellmound Street, Ste 700
Emeryville, CA 94608-1958

Subject: **Calscience Work Order No.: 08-12-2404**
Client Reference: Hitachi - GST / 03-11903E

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/24/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

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

Sincerely,

//original signed by//

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-30-23	**08-12-2404-1-A**	**12/23/08 11:07**	**Air**	**GC/MS II**	**N/A**	**12/24/08 20:01**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.053	0.0073	1.53		t-1,3-Dichloropropene	ND	0.0069	1.53	
Benzene	0.031	0.0024	1.53		Ethyl-t-Butyl Ether (ETBE)	ND	0.013	1.53	
Benzyl Chloride	ND	0.0079	1.53		Ethylbenzene	0.024	0.0033	1.53	
Bromodichloromethane	ND	0.0051	1.53		4-Ethyltoluene	0.0039	0.0038	1.53	
Bromoform	0.011	0.0079	1.53		Hexachloro-1,3-Butadiene	ND	0.016	1.53	
Bromomethane	ND	0.0030	1.53		2-Hexanone	ND	0.0063	1.53	
2-Butanone	0.018	0.0045	1.53		Methyl-t-Butyl Ether (MTBE)	ND	0.011	1.53	
Carbon Disulfide	0.013	0.0024	1.53		Methylene Chloride	ND	0.027	1.53	
Carbon Tetrachloride	0.0050	0.0048	1.53		4-Methyl-2-Pentanone	0.16	0.0063	1.53	
Chlorobenzene	ND	0.0035	1.53		o-Xylene	0.021	0.0033	1.53	
Chloroethane	ND	0.0020	1.53		p/m-Xylene	0.073	0.013	1.53	
Chloroform	2.3	0.037	15.3		Styrene	ND	0.0065	1.53	
Chloromethane	ND	0.0016	1.53		Tert-Amyl-Methyl Ether (TAME)	ND	0.013	1.53	
Dibromochloromethane	ND	0.0065	1.53		Tert-Butyl Alcohol (TBA)	ND	0.0093	1.53	
Dichlorodifluoromethane	ND	0.0038	1.53		Tetrachloroethene	0.0087	0.0052	1.53	
Diisopropyl Ether (DIPE)	ND	0.013	1.53		Toluene	0.13	0.0029	1.53	
1,1-Dichloroethane	ND	0.0031	1.53		Trichloroethene	0.10	0.0041	1.53	
1,1-Dichloroethene	0.097	0.0030	1.53		Trichlorofluoromethane	0.024	0.0086	1.53	
1,2-Dibromoethane	ND	0.0059	1.53		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.022	0.012	1.53	
Dichlorotetrafluoroethane	ND	0.021	1.53		1,1,1-Trichloroethane	0.071	0.0042	1.53	
1,2-Dichlorobenzene	ND	0.0046	1.53		1,1,2-Trichloroethane	ND	0.0042	1.53	
1,2-Dichloroethane	ND	0.0031	1.53		1,3,5-Trimethylbenzene	0.0053	0.0038	1.53	
1,2-Dichloropropane	ND	0.0035	1.53		1,1,2,2-Tetrachloroethane	ND	0.011	1.53	
1,3-Dichlorobenzene	ND	0.0046	1.53		1,2,4-Trimethylbenzene	0.013	0.0075	1.53	
1,4-Dichlorobenzene	ND	0.0046	1.53		1,2,4-Trichlorobenzene	ND	0.023	1.53	
c-1,3-Dichloropropene	ND	0.0035	1.53		Vinyl Acetate	ND	0.011	1.53	
c-1,2-Dichloroethene	ND	0.0030	1.53		Vinyl Chloride	ND	0.0020	1.53	
t-1,2-Dichloroethene	ND	0.0030	1.53		1,1-Difluoroethane	ND	0.0083	1.53	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	108	57-129		1,2-Dichloroethane-d4	112	47-137	
Toluene-d8	101	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-33-13.7	**08-12-2404-2-A**	**12/23/08 10:32**	**Air**	**GC/MS II**	**N/A**	**12/24/08 20:45**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.062	0.035	7.35		t-1,3-Dichloropropene	ND	0.033	7.35	
Benzene	0.10	0.012	7.35		Ethyl-t-Butyl Ether (ETBE)	ND	0.061	7.35	
Benzyl Chloride	ND	0.038	7.35		Ethylbenzene	0.22	0.016	7.35	
Bromodichloromethane	ND	0.025	7.35		4-Ethyltoluene	0.088	0.018	7.35	
Bromoform	ND	0.038	7.35		Hexachloro-1,3-Butadiene	ND	0.078	7.35	
Bromomethane	ND	0.014	7.35		2-Hexanone	ND	0.030	7.35	
2-Butanone	ND	0.022	7.35		Methyl-t-Butyl Ether (MTBE)	ND	0.053	7.35	
Carbon Disulfide	0.063	0.011	7.35		Methylene Chloride	ND	0.13	7.35	
Carbon Tetrachloride	ND	0.023	7.35		4-Methyl-2-Pentanone	ND	0.030	7.35	
Chlorobenzene	ND	0.017	7.35		o-Xylene	0.26	0.016	7.35	
Chloroethane	ND	0.0097	7.35		p/m-Xylene	0.86	0.064	7.35	
Chloroform	0.37	0.018	7.35		Styrene	ND	0.031	7.35	
Chloromethane	ND	0.0076	7.35		Tert-Amyl-Methyl Ether (TAME)	ND	0.061	7.35	
Dibromochloromethane	ND	0.031	7.35		Tert-Butyl Alcohol (TBA)	ND	0.045	7.35	
Dichlorodifluoromethane	ND	0.018	7.35		Tetrachloroethene	ND	0.025	7.35	
Diisopropyl Ether (DIPE)	ND	0.061	7.35		Toluene	0.74	0.014	7.35	
1,1-Dichloroethane	ND	0.015	7.35		Trichloroethene	0.025	0.020	7.35	
1,1-Dichloroethene	ND	0.015	7.35		Trichlorofluoromethane	ND	0.041	7.35	
1,2-Dibromoethane	ND	0.028	7.35		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.056	7.35	
Dichlorotetrafluoroethane	ND	0.10	7.35		1,1,1-Trichloroethane	ND	0.020	7.35	
1,2-Dichlorobenzene	ND	0.022	7.35		1,1,2-Trichloroethane	ND	0.020	7.35	
1,2-Dichloroethane	ND	0.015	7.35		1,3,5-Trimethylbenzene	0.11	0.018	7.35	
1,2-Dichloropropane	ND	0.017	7.35		1,1,2,2-Tetrachloroethane	ND	0.050	7.35	
1,3-Dichlorobenzene	ND	0.022	7.35		1,2,4-Trimethylbenzene	0.28	0.036	7.35	
1,4-Dichlorobenzene	ND	0.022	7.35		1,2,4-Trichlorobenzene	ND	0.11	7.35	
c-1,3-Dichloropropene	ND	0.017	7.35		Vinyl Acetate	ND	0.052	7.35	
c-1,2-Dichloroethene	ND	0.015	7.35		Vinyl Chloride	ND	0.0094	7.35	
t-1,2-Dichloroethene	ND	0.015	7.35		1,1-Difluoroethane	0.089	0.040	7.35	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	105	57-129		1,2-Dichloroethane-d4	107	47-137	
Toluene-d8	100	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-39-23.5	**08-12-2404-3-A**	**12/23/08 09:27**	**Air**	**GC/MS II**	**N/A**	**12/24/08 21:30**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.078	0.0072	1.52		t-1,3-Dichloropropene	ND	0.0069	1.52	
Benzene	0.025	0.0024	1.52		Ethyl-t-Butyl Ether (ETBE)	ND	0.013	1.52	
Benzyl Chloride	ND	0.0079	1.52		Ethylbenzene	0.11	0.0033	1.52	
Bromodichloromethane	ND	0.0051	1.52		4-Ethyltoluene	0.063	0.0037	1.52	
Bromoform	ND	0.0079	1.52		Hexachloro-1,3-Butadiene	ND	0.016	1.52	
Bromomethane	ND	0.0030	1.52		2-Hexanone	0.0098	0.0062	1.52	
2-Butanone	0.030	0.0045	1.52		Methyl-t-Butyl Ether (MTBE)	0.014	0.011	1.52	
Carbon Disulfide	0.0066	0.0024	1.52		Methylene Chloride	ND	0.026	1.52	
Carbon Tetrachloride	ND	0.0048	1.52		4-Methyl-2-Pentanone	0.016	0.0062	1.52	
Chlorobenzene	ND	0.0035	1.52		o-Xylene	0.15	0.0033	1.52	
Chloroethane	ND	0.0020	1.52		p/m-Xylene	0.42	0.013	1.52	
Chloroform	2.0	0.037	15.2		Styrene	0.017	0.0065	1.52	
Chloromethane	ND	0.0016	1.52		Tert-Amyl-Methyl Ether (TAME)	ND	0.013	1.52	
Dibromochloromethane	ND	0.0065	1.52		Tert-Butyl Alcohol (TBA)	0.011	0.0092	1.52	
Dichlorodifluoromethane	ND	0.0038	1.52		Tetrachloroethene	0.0088	0.0052	1.52	
Diisopropyl Ether (DIPE)	ND	0.013	1.52		Toluene	0.25	0.0029	1.52	
1,1-Dichloroethane	ND	0.0031	1.52		Trichloroethene	0.19	0.0041	1.52	
1,1-Dichloroethene	0.033	0.0030	1.52		Trichlorofluoromethane	0.011	0.0085	1.52	
1,2-Dibromoethane	ND	0.0058	1.52		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.019	0.012	1.52	
Dichlorotetrafluoroethane	ND	0.021	1.52		1,1,1-Trichloroethane	0.048	0.0041	1.52	
1,2-Dichlorobenzene	ND	0.0046	1.52		1,1,2-Trichloroethane	ND	0.0041	1.52	
1,2-Dichloroethane	ND	0.0031	1.52		1,3,5-Trimethylbenzene	0.078	0.0037	1.52	
1,2-Dichloropropane	ND	0.0035	1.52		1,1,2,2-Tetrachloroethane	ND	0.010	1.52	
1,3-Dichlorobenzene	ND	0.0046	1.52		1,2,4-Trimethylbenzene	0.20	0.0075	1.52	
1,4-Dichlorobenzene	ND	0.0046	1.52		1,2,4-Trichlorobenzene	ND	0.023	1.52	
c-1,3-Dichloropropene	ND	0.0034	1.52		Vinyl Acetate	ND	0.011	1.52	
c-1,2-Dichloroethene	ND	0.0030	1.52		Vinyl Chloride	ND	0.0019	1.52	
t-1,2-Dichloroethene	ND	0.0030	1.52		1,1-Difluoroethane	0.13	0.0082	1.52	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	105	57-129		1,2-Dichloroethane-d4	104	47-137	
Toluene-d8	100	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-99-23.5	**08-12-2404-4-A**	**12/23/08 09:30**	**Air**	**GC/MS II**	**N/A**	**12/24/08 22:14**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.055	0.0074	1.55		t-1,3-Dichloropropene	ND	0.0070	1.55	
Benzene	0.023	0.0025	1.55		Ethyl-t-Butyl Ether (ETBE)	ND	0.013	1.55	
Benzyl Chloride	ND	0.0080	1.55		Ethylbenzene	0.096	0.0034	1.55	
Bromodichloromethane	ND	0.0052	1.55		4-Ethyltoluene	0.050	0.0038	1.55	
Bromoform	ND	0.0080	1.55		Hexachloro-1,3-Butadiene	ND	0.017	1.55	
Bromomethane	ND	0.0030	1.55		2-Hexanone	ND	0.0063	1.55	
2-Butanone	0.0092	0.0046	1.55		Methyl-t-Butyl Ether (MTBE)	0.011	0.011	1.55	
Carbon Disulfide	0.0057	0.0024	1.55		Methylene Chloride	ND	0.027	1.55	
Carbon Tetrachloride	ND	0.0049	1.55		4-Methyl-2-Pentanone	0.010	0.0063	1.55	
Chlorobenzene	ND	0.0036	1.55		o-Xylene	0.13	0.0034	1.55	
Chloroethane	ND	0.0020	1.55		p/m-Xylene	0.37	0.013	1.55	
Chloroform	2.0	0.038	15.5		Styrene	0.012	0.0066	1.55	
Chloromethane	ND	0.0016	1.55		Tert-Amyl-Methyl Ether (TAME)	ND	0.013	1.55	
Dibromochloromethane	ND	0.0066	1.55		Tert-Butyl Alcohol (TBA)	ND	0.0094	1.55	
Dichlorodifluoromethane	ND	0.0038	1.55		Tetrachloroethene	0.0077	0.0053	1.55	
Diisopropyl Ether (DIPE)	ND	0.013	1.55		Toluene	0.23	0.0029	1.55	
1,1-Dichloroethane	ND	0.0031	1.55		Trichloroethene	0.17	0.0042	1.55	
1,1-Dichloroethene	0.029	0.0031	1.55		Trichlorofluoromethane	0.0093	0.0087	1.55	
1,2-Dibromoethane	ND	0.0060	1.55		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.017	0.012	1.55	
Dichlorotetrafluoroethane	ND	0.022	1.55		1,1,1-Trichloroethane	0.042	0.0042	1.55	
1,2-Dichlorobenzene	ND	0.0047	1.55		1,1,2-Trichloroethane	ND	0.0042	1.55	
1,2-Dichloroethane	ND	0.0031	1.55		1,3,5-Trimethylbenzene	0.065	0.0038	1.55	
1,2-Dichloropropane	ND	0.0036	1.55		1,1,2,2-Tetrachloroethane	ND	0.011	1.55	
1,3-Dichlorobenzene	ND	0.0047	1.55		1,2,4-Trimethylbenzene	0.17	0.0076	1.55	
1,4-Dichlorobenzene	ND	0.0047	1.55		1,2,4-Trichlorobenzene	ND	0.023	1.55	
c-1,3-Dichloropropene	ND	0.0035	1.55		Vinyl Acetate	ND	0.011	1.55	
c-1,2-Dichloroethene	ND	0.0031	1.55		Vinyl Chloride	ND	0.0020	1.55	
t-1,2-Dichloroethene	ND	0.0031	1.55		1,1-Difluoroethane	0.12	0.0084	1.55	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	57-129		1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-38-15	**08-12-2404-5-A**	**12/23/08 11:35**	**Air**	**GC/MS II**	**N/A**	**12/24/08 22:58**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.037	0.0075	1.57		t-1,3-Dichloropropene	ND	0.0071	1.57	
Benzene	0.050	0.0025	1.57		Ethyl-t-Butyl Ether (ETBE)	ND	0.013	1.57	
Benzyl Chloride	ND	0.0081	1.57		Ethylbenzene	0.045	0.0034	1.57	
Bromodichloromethane	ND	0.0053	1.57		4-Ethyltoluene	0.0092	0.0039	1.57	
Bromoform	ND	0.0081	1.57		Hexachloro-1,3-Butadiene	ND	0.017	1.57	
Bromomethane	ND	0.0030	1.57		2-Hexanone	0.0078	0.0064	1.57	
2-Butanone	0.019	0.0046	1.57		Methyl-t-Butyl Ether (MTBE)	ND	0.011	1.57	
Carbon Disulfide	0.018	0.0024	1.57		Methylene Chloride	ND	0.027	1.57	
Carbon Tetrachloride	0.0073	0.0049	1.57		4-Methyl-2-Pentanone	0.23	0.0064	1.57	
Chlorobenzene	ND	0.0036	1.57		o-Xylene	0.041	0.0034	1.57	
Chloroethane	ND	0.0021	1.57		p/m-Xylene	0.14	0.014	1.57	
Chloroform	0.76	0.015	6.28		Styrene	ND	0.0067	1.57	
Chloromethane	ND	0.0016	1.57		Tert-Amyl-Methyl Ether (TAME)	ND	0.013	1.57	
Dibromochloromethane	ND	0.0067	1.57		Tert-Butyl Alcohol (TBA)	ND	0.0095	1.57	
Dichlorodifluoromethane	ND	0.0039	1.57		Tetrachloroethene	0.013	0.0053	1.57	
Diisopropyl Ether (DIPE)	ND	0.013	1.57		Toluene	0.22	0.0030	1.57	
1,1-Dichloroethane	ND	0.0032	1.57		Trichloroethene	0.043	0.0042	1.57	
1,1-Dichloroethene	0.048	0.0031	1.57		Trichlorofluoromethane	0.0090	0.0088	1.57	
1,2-Dibromoethane	ND	0.0060	1.57		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.012	1.57	
Dichlorotetrafluoroethane	ND	0.022	1.57		1,1,1-Trichloroethane	0.058	0.0043	1.57	
1,2-Dichlorobenzene	ND	0.0047	1.57		1,1,2-Trichloroethane	ND	0.0043	1.57	
1,2-Dichloroethane	ND	0.0032	1.57		1,3,5-Trimethylbenzene	0.012	0.0039	1.57	
1,2-Dichloropropane	ND	0.0036	1.57		1,1,2,2-Tetrachloroethane	ND	0.011	1.57	
1,3-Dichlorobenzene	ND	0.0047	1.57		1,2,4-Trimethylbenzene	0.030	0.0077	1.57	
1,4-Dichlorobenzene	ND	0.0047	1.57		1,2,4-Trichlorobenzene	ND	0.023	1.57	
c-1,3-Dichloropropene	ND	0.0036	1.57		Vinyl Acetate	ND	0.011	1.57	
c-1,2-Dichloroethene	ND	0.0031	1.57		Vinyl Chloride	ND	0.0020	1.57	
t-1,2-Dichloroethene	ND	0.0031	1.57		1,1-Difluoroethane	ND	0.0085	1.57	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	100	57-129		1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	100	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-27-15	**08-12-2404-6-A**	**12/23/08 12:06**	**Air**	**GC/MS II**	**N/A**	**12/24/08 23:43**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.21	0.028	5.92		t-1,3-Dichloropropene	ND	0.0067	1.48	
Benzene	0.083	0.0024	1.48		Ethyl-t-Butyl Ether (ETBE)	ND	0.012	1.48	
Benzyl Chloride	ND	0.0077	1.48		Ethylbenzene	0.15	0.0032	1.48	
Bromodichloromethane	ND	0.0050	1.48		4-Ethyltoluene	0.067	0.0036	1.48	
Bromoform	ND	0.0076	1.48		Hexachloro-1,3-Butadiene	ND	0.016	1.48	
Bromomethane	ND	0.0029	1.48		2-Hexanone	0.0072	0.0061	1.48	
2-Butanone	0.056	0.0044	1.48		Methyl-t-Butyl Ether (MTBE)	0.016	0.011	1.48	
Carbon Disulfide	0.038	0.0023	1.48		Methylene Chloride	ND	0.026	1.48	
Carbon Tetrachloride	0.0077	0.0047	1.48		4-Methyl-2-Pentanone	0.18	0.0061	1.48	
Chlorobenzene	ND	0.0034	1.48		o-Xylene	0.20	0.0032	1.48	
Chloroethane	ND	0.0020	1.48		p/m-Xylene	0.51	0.013	1.48	
Chloroform	0.43	0.014	5.92		Styrene	0.0092	0.0063	1.48	
Chloromethane	ND	0.0015	1.48		Tert-Amyl-Methyl Ether (TAME)	ND	0.012	1.48	
Dibromochloromethane	ND	0.0063	1.48		Tert-Butyl Alcohol (TBA)	ND	0.0090	1.48	
Dichlorodifluoromethane	ND	0.0037	1.48		Tetrachloroethene	0.0053	0.0050	1.48	
Diisopropyl Ether (DIPE)	ND	0.012	1.48		Toluene	0.57	0.011	5.92	
1,1-Dichloroethane	ND	0.0030	1.48		Trichloroethene	0.017	0.0040	1.48	
1,1-Dichloroethene	0.040	0.0029	1.48		Trichlorofluoromethane	0.019	0.0083	1.48	
1,2-Dibromoethane	ND	0.0057	1.48		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.011	1.48	
Dichlorotetrafluoroethane	ND	0.021	1.48		1,1,1-Trichloroethane	0.045	0.0040	1.48	
1,2-Dichlorobenzene	ND	0.0044	1.48		1,1,2-Trichloroethane	ND	0.0040	1.48	
1,2-Dichloroethane	ND	0.0030	1.48		1,3,5-Trimethylbenzene	0.081	0.0036	1.48	
1,2-Dichloropropane	ND	0.0034	1.48		1,1,2,2-Tetrachloroethane	ND	0.010	1.48	
1,3-Dichlorobenzene	ND	0.0044	1.48		1,2,4-Trimethylbenzene	0.21	0.0073	1.48	
1,4-Dichlorobenzene	ND	0.0044	1.48		1,2,4-Trichlorobenzene	ND	0.022	1.48	
c-1,3-Dichloropropene	ND	0.0034	1.48		Vinyl Acetate	ND	0.010	1.48	
c-1,2-Dichloroethene	ND	0.0029	1.48		Vinyl Chloride	ND	0.0019	1.48	
t-1,2-Dichloroethene	ND	0.0029	1.48		1,1-Difluoroethane	ND	0.0080	1.48	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	57-129		1,2-Dichloroethane-d4	100	47-137	
Toluene-d8	98	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-36-25.5	**08-12-2404-7-A**	**12/23/08 13:39**	**Air**	**GC/MS II**	**N/A**	**12/25/08 00:27**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.11	0.034	7.1		t-1,3-Dichloropropene	ND	0.032	7.1	
Benzene	0.024	0.011	7.1		Ethyl-t-Butyl Ether (ETBE)	ND	0.059	7.1	
Benzyl Chloride	ND	0.037	7.1		Ethylbenzene	ND	0.015	7.1	
Bromodichloromethane	ND	0.024	7.1		4-Ethyltoluene	ND	0.017	7.1	
Bromoform	ND	0.037	7.1		Hexachloro-1,3-Butadiene	ND	0.076	7.1	
Bromomethane	ND	0.014	7.1		2-Hexanone	ND	0.029	7.1	
2-Butanone	0.042	0.021	7.1		Methyl-t-Butyl Ether (MTBE)	ND	0.051	7.1	
Carbon Disulfide	ND	0.011	7.1		Methylene Chloride	ND	0.12	7.1	
Carbon Tetrachloride	ND	0.022	7.1		4-Methyl-2-Pentanone	0.54	0.029	7.1	
Chlorobenzene	ND	0.016	7.1		o-Xylene	0.016	0.015	7.1	
Chloroethane	ND	0.0094	7.1		p/m-Xylene	ND	0.062	7.1	
Chloroform	0.46	0.017	7.1		Styrene	ND	0.030	7.1	
Chloromethane	ND	0.0073	7.1		Tert-Amyl-Methyl Ether (TAME)	ND	0.059	7.1	
Dibromochloromethane	ND	0.030	7.1		Tert-Butyl Alcohol (TBA)	ND	0.043	7.1	
Dichlorodifluoromethane	ND	0.018	7.1		Tetrachloroethene	ND	0.024	7.1	
Diisopropyl Ether (DIPE)	ND	0.059	7.1		Toluene	0.095	0.013	7.1	
1,1-Dichloroethane	ND	0.014	7.1		Trichloroethene	ND	0.019	7.1	
1,1-Dichloroethene	ND	0.014	7.1		Trichlorofluoromethane	0.20	0.040	7.1	
1,2-Dibromoethane	ND	0.027	7.1		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.061	0.054	7.1	
Dichlorotetrafluoroethane	ND	0.099	7.1		1,1,1-Trichloroethane	ND	0.019	7.1	
1,2-Dichlorobenzene	ND	0.021	7.1		1,1,2-Trichloroethane	ND	0.019	7.1	
1,2-Dichloroethane	ND	0.014	7.1		1,3,5-Trimethylbenzene	ND	0.017	7.1	
1,2-Dichloropropane	ND	0.016	7.1		1,1,2,2-Tetrachloroethane	ND	0.049	7.1	
1,3-Dichlorobenzene	ND	0.021	7.1		1,2,4-Trimethylbenzene	ND	0.035	7.1	
1,4-Dichlorobenzene	ND	0.021	7.1		1,2,4-Trichlorobenzene	ND	0.11	7.1	
c-1,3-Dichloropropene	ND	0.016	7.1		Vinyl Acetate	ND	0.050	7.1	
c-1,2-Dichloroethene	ND	0.014	7.1		Vinyl Chloride	ND	0.0091	7.1	
t-1,2-Dichloroethene	ND	0.014	7.1		1,1-Difluoroethane	ND	0.038	7.1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	57-129		1,2-Dichloroethane-d4	99	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-36-5	**08-12-2404-8-A**	**12/23/08 14:14**	**Air**	**GC/MS II**	**N/A**	**12/25/08 01:11**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.15	0.0073	1.54		t-1,3-Dichloropropene	ND	0.0070	1.54	
Benzene	0.0091	0.0025	1.54		Ethyl-t-Butyl Ether (ETBE)	ND	0.013	1.54	
Benzyl Chloride	ND	0.0080	1.54		Ethylbenzene	0.012	0.0033	1.54	
Bromodichloromethane	ND	0.0052	1.54		4-Ethyltoluene	0.0090	0.0038	1.54	
Bromoform	ND	0.0080	1.54		Hexachloro-1,3-Butadiene	ND	0.016	1.54	
Bromomethane	ND	0.0030	1.54		2-Hexanone	0.0097	0.0063	1.54	
2-Butanone	0.068	0.0045	1.54		Methyl-t-Butyl Ether (MTBE)	ND	0.011	1.54	
Carbon Disulfide	0.013	0.0024	1.54		Methylene Chloride	ND	0.027	1.54	
Carbon Tetrachloride	ND	0.0048	1.54		4-Methyl-2-Pentanone	0.36	0.025	6.16	
Chlorobenzene	ND	0.0035	1.54		o-Xylene	0.017	0.0033	1.54	
Chloroethane	ND	0.0020	1.54		p/m-Xylene	0.048	0.013	1.54	
Chloroform	0.035	0.0038	1.54		Styrene	ND	0.0066	1.54	
Chloromethane	ND	0.0016	1.54		Tert-Amyl-Methyl Ether (TAME)	ND	0.013	1.54	
Dibromochloromethane	ND	0.0066	1.54		Tert-Butyl Alcohol (TBA)	ND	0.0093	1.54	
Dichlorodifluoromethane	0.0042	0.0038	1.54		Tetrachloroethene	ND	0.0052	1.54	
Diisopropyl Ether (DIPE)	ND	0.013	1.54		Toluene	0.041	0.0029	1.54	
1,1-Dichloroethane	ND	0.0031	1.54		Trichloroethene	ND	0.0041	1.54	
1,1-Dichloroethene	ND	0.0031	1.54		Trichlorofluoromethane	0.11	0.0087	1.54	
1,2-Dibromoethane	ND	0.0059	1.54		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.029	0.012	1.54	
Dichlorotetrafluoroethane	ND	0.022	1.54		1,1,1-Trichloroethane	0.0057	0.0042	1.54	
1,2-Dichlorobenzene	ND	0.0046	1.54		1,1,2-Trichloroethane	ND	0.0042	1.54	
1,2-Dichloroethane	ND	0.0031	1.54		1,3,5-Trimethylbenzene	0.011	0.0038	1.54	
1,2-Dichloropropane	ND	0.0036	1.54		1,1,2,2-Tetrachloroethane	ND	0.011	1.54	
1,3-Dichlorobenzene	ND	0.0046	1.54		1,2,4-Trimethylbenzene	0.038	0.0076	1.54	
1,4-Dichlorobenzene	ND	0.0046	1.54		1,2,4-Trichlorobenzene	ND	0.023	1.54	
c-1,3-Dichloropropene	ND	0.0035	1.54		Vinyl Acetate	ND	0.011	1.54	
c-1,2-Dichloroethene	ND	0.0031	1.54		Vinyl Chloride	ND	0.0020	1.54	
t-1,2-Dichloroethene	ND	0.0031	1.54		1,1-Difluoroethane	ND	0.0083	1.54	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	57-129		1,2-Dichloroethane-d4	100	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-36-10	**08-12-2404-9-A**	**12/23/08 14:44**	**Air**	**GC/MS II**	**N/A**	**12/25/08 01:56**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.12	0.0079	1.66		t-1,3-Dichloropropene	ND	0.0075	1.66	
Benzene	0.033	0.0027	1.66		Ethyl-t-Butyl Ether (ETBE)	ND	0.014	1.66	
Benzyl Chloride	ND	0.0086	1.66		Ethylbenzene	0.040	0.0036	1.66	
Bromodichloromethane	0.020	0.0056	1.66		4-Ethyltoluene	0.017	0.0041	1.66	
Bromoform	0.012	0.0086	1.66		Hexachloro-1,3-Butadiene	ND	0.018	1.66	
Bromomethane	ND	0.0032	1.66		2-Hexanone	0.011	0.0068	1.66	
2-Butanone	0.034	0.0049	1.66		Methyl-t-Butyl Ether (MTBE)	ND	0.012	1.66	
Carbon Disulfide	0.054	0.0026	1.66		Methylene Chloride	ND	0.029	1.66	
Carbon Tetrachloride	ND	0.0052	1.66		4-Methyl-2-Pentanone	0.30	0.0068	1.66	
Chlorobenzene	ND	0.0038	1.66		o-Xylene	0.047	0.0036	1.66	
Chloroethane	ND	0.0022	1.66		p/m-Xylene	0.14	0.014	1.66	
Chloroform	0.15	0.0041	1.66		Styrene	ND	0.0071	1.66	
Chloromethane	0.0026	0.0017	1.66		Tert-Amyl-Methyl Ether (TAME)	ND	0.014	1.66	
Dibromochloromethane	0.027	0.0071	1.66		Tert-Butyl Alcohol (TBA)	ND	0.010	1.66	
Dichlorodifluoromethane	0.0044	0.0041	1.66		Tetrachloroethene	0.0078	0.0056	1.66	
Diisopropyl Ether (DIPE)	ND	0.014	1.66		Toluene	0.13	0.0031	1.66	
1,1-Dichloroethane	ND	0.0034	1.66		Trichloroethene	ND	0.0045	1.66	
1,1-Dichloroethene	ND	0.0033	1.66		Trichlorofluoromethane	0.11	0.0093	1.66	
1,2-Dibromoethane	ND	0.0064	1.66		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.033	0.013	1.66	
Dichlorotetrafluoroethane	ND	0.023	1.66		1,1,1-Trichloroethane	0.0080	0.0045	1.66	
1,2-Dichlorobenzene	ND	0.0050	1.66		1,1,2-Trichloroethane	ND	0.0045	1.66	
1,2-Dichloroethane	ND	0.0034	1.66		1,3,5-Trimethylbenzene	0.020	0.0041	1.66	
1,2-Dichloropropane	ND	0.0038	1.66		1,1,2,2-Tetrachloroethane	ND	0.011	1.66	
1,3-Dichlorobenzene	ND	0.0050	1.66		1,2,4-Trimethylbenzene	0.067	0.0082	1.66	
1,4-Dichlorobenzene	ND	0.0050	1.66		1,2,4-Trichlorobenzene	ND	0.025	1.66	
c-1,3-Dichloropropene	ND	0.0038	1.66		Vinyl Acetate	ND	0.012	1.66	
c-1,2-Dichloroethene	ND	0.0033	1.66		Vinyl Chloride	ND	0.0021	1.66	
t-1,2-Dichloroethene	ND	0.0033	1.66		1,1-Difluoroethane	ND	0.0090	1.66	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	103	57-129		1,2-Dichloroethane-d4	100	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-36-15	**08-12-2404-10-A**	**12/23/08 15:12**	**Air**	**GC/MS II**	**N/A**	**12/25/08 02:40**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.066	0.0068	1.43		t-1,3-Dichloropropene	ND	0.0065	1.43	
Benzene	0.014	0.0023	1.43		Ethyl-t-Butyl Ether (ETBE)	ND	0.012	1.43	
Benzyl Chloride	ND	0.0074	1.43		Ethylbenzene	0.012	0.0031	1.43	
Bromodichloromethane	ND	0.0048	1.43		4-Ethyltoluene	0.0042	0.0035	1.43	
Bromoform	ND	0.0074	1.43		Hexachloro-1,3-Butadiene	ND	0.015	1.43	
Bromomethane	ND	0.0028	1.43		2-Hexanone	0.013	0.0059	1.43	
2-Butanone	0.040	0.0042	1.43		Methyl-t-Butyl Ether (MTBE)	ND	0.010	1.43	
Carbon Disulfide	0.0052	0.0022	1.43		Methylene Chloride	ND	0.025	1.43	
Carbon Tetrachloride	ND	0.0045	1.43		4-Methyl-2-Pentanone	0.44	0.023	5.72	
Chlorobenzene	ND	0.0033	1.43		o-Xylene	0.014	0.0031	1.43	
Chloroethane	ND	0.0019	1.43		p/m-Xylene	0.045	0.012	1.43	
Chloroform	0.21	0.0035	1.43		Styrene	ND	0.0061	1.43	
Chloromethane	0.0018	0.0015	1.43		Tert-Amyl-Methyl Ether (TAME)	ND	0.012	1.43	
Dibromochloromethane	ND	0.0061	1.43		Tert-Butyl Alcohol (TBA)	ND	0.0087	1.43	
Dichlorodifluoromethane	ND	0.0035	1.43		Tetrachloroethene	0.019	0.0048	1.43	
Diisopropyl Ether (DIPE)	ND	0.012	1.43		Toluene	0.057	0.0027	1.43	
1,1-Dichloroethane	ND	0.0029	1.43		Trichloroethene	ND	0.0038	1.43	
1,1-Dichloroethene	ND	0.0028	1.43		Trichlorofluoromethane	0.21	0.0080	1.43	
1,2-Dibromoethane	ND	0.0055	1.43		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.061	0.011	1.43	
Dichlorotetrafluoroethane	ND	0.020	1.43		1,1,1-Trichloroethane	0.012	0.0039	1.43	
1,2-Dichlorobenzene	ND	0.0043	1.43		1,1,2-Trichloroethane	ND	0.0039	1.43	
1,2-Dichloroethane	ND	0.0029	1.43		1,3,5-Trimethylbenzene	0.0055	0.0035	1.43	
1,2-Dichloropropane	ND	0.0033	1.43		1,1,2,2-Tetrachloroethane	ND	0.0098	1.43	
1,3-Dichlorobenzene	ND	0.0043	1.43		1,2,4-Trimethylbenzene	0.019	0.0070	1.43	
1,4-Dichlorobenzene	ND	0.0043	1.43		1,2,4-Trichlorobenzene	ND	0.021	1.43	
c-1,3-Dichloropropene	ND	0.0032	1.43		Vinyl Acetate	ND	0.010	1.43	
c-1,2-Dichloroethene	ND	0.0028	1.43		Vinyl Chloride	ND	0.0018	1.43	
t-1,2-Dichloroethene	ND	0.0028	1.43		1,1-Difluoroethane	ND	0.0077	1.43	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	57-129		1,2-Dichloroethane-d4	100	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-39-5	**08-12-2404-11-A**	**12/23/08 15:41**	**Air**	**GC/MS II**	**N/A**	**12/25/08 03:25**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.020	0.0071	1.5		t-1,3-Dichloropropene	ND	0.0068	1.5	
Benzene	0.020	0.0024	1.5		Ethyl-t-Butyl Ether (ETBE)	ND	0.013	1.5	
Benzyl Chloride	ND	0.0078	1.5		Ethylbenzene	0.063	0.0033	1.5	
Bromodichloromethane	ND	0.0050	1.5		4-Ethyltoluene	0.037	0.0037	1.5	
Bromoform	ND	0.0078	1.5		Hexachloro-1,3-Butadiene	ND	0.016	1.5	
Bromomethane	ND	0.0029	1.5		2-Hexanone	ND	0.0061	1.5	
2-Butanone	ND	0.0044	1.5		Methyl-t-Butyl Ether (MTBE)	ND	0.011	1.5	
Carbon Disulfide	0.0071	0.0023	1.5		Methylene Chloride	ND	0.026	1.5	
Carbon Tetrachloride	ND	0.0047	1.5		4-Methyl-2-Pentanone	ND	0.0061	1.5	
Chlorobenzene	ND	0.0035	1.5		o-Xylene	0.082	0.0033	1.5	
Chloroethane	ND	0.0020	1.5		p/m-Xylene	0.25	0.013	1.5	
Chloroform	0.46	0.015	6		Styrene	ND	0.0064	1.5	
Chloromethane	ND	0.0015	1.5		Tert-Amyl-Methyl Ether (TAME)	ND	0.013	1.5	
Dibromochloromethane	ND	0.0064	1.5		Tert-Butyl Alcohol (TBA)	ND	0.0091	1.5	
Dichlorodifluoromethane	ND	0.0037	1.5		Tetrachloroethene	ND	0.0051	1.5	
Diisopropyl Ether (DIPE)	ND	0.013	1.5		Toluene	0.18	0.0028	1.5	
1,1-Dichloroethane	ND	0.0030	1.5		Trichloroethene	0.038	0.0040	1.5	
1,1-Dichloroethene	0.0042	0.0030	1.5		Trichlorofluoromethane	ND	0.0084	1.5	
1,2-Dibromoethane	ND	0.0058	1.5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.011	1.5	
Dichlorotetrafluoroethane	ND	0.021	1.5		1,1,1-Trichloroethane	0.032	0.0041	1.5	
1,2-Dichlorobenzene	ND	0.0045	1.5		1,1,2-Trichloroethane	ND	0.0041	1.5	
1,2-Dichloroethane	ND	0.0030	1.5		1,3,5-Trimethylbenzene	0.045	0.0037	1.5	
1,2-Dichloropropane	ND	0.0035	1.5		1,1,2,2-Tetrachloroethane	ND	0.010	1.5	
1,3-Dichlorobenzene	ND	0.0045	1.5		1,2,4-Trimethylbenzene	0.13	0.0074	1.5	
1,4-Dichlorobenzene	ND	0.0045	1.5		1,2,4-Trichlorobenzene	ND	0.022	1.5	
c-1,3-Dichloropropene	ND	0.0034	1.5		Vinyl Acetate	ND	0.011	1.5	
c-1,2-Dichloroethene	ND	0.0030	1.5		Vinyl Chloride	ND	0.0019	1.5	
t-1,2-Dichloroethene	ND	0.0030	1.5		1,1-Difluoroethane	ND	0.0081	1.5	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	57-129		1,2-Dichloroethane-d4	98	47-137	
Toluene-d8	100	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-39-13.5	**08-12-2404-12-A**	**12/23/08 16:10**	**Air**	**GC/MS YY**	**N/A**	**12/24/08 21:35**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.017	0.0070	1.48		t-1,3-Dichloropropene	ND	0.0067	1.48	
Benzene	0.054	0.0024	1.48		Ethyl-t-Butyl Ether (ETBE)	ND	0.012	1.48	
Benzyl Chloride	ND	0.0077	1.48		Ethylbenzene	0.12	0.0032	1.48	
Bromodichloromethane	ND	0.0050	1.48		4-Ethyltoluene	0.052	0.0036	1.48	
Bromoform	ND	0.0076	1.48		Hexachloro-1,3-Butadiene	ND	0.016	1.48	
Bromomethane	ND	0.0029	1.48		2-Hexanone	ND	0.0061	1.48	
2-Butanone	ND	0.0044	1.48		Methyl-t-Butyl Ether (MTBE)	ND	0.011	1.48	
Carbon Disulfide	0.031	0.0023	1.48		Methylene Chloride	ND	0.026	1.48	
Carbon Tetrachloride	ND	0.0047	1.48		4-Methyl-2-Pentanone	ND	0.0061	1.48	
Chlorobenzene	ND	0.0034	1.48		o-Xylene	0.14	0.0032	1.48	
Chloroethane	ND	0.0020	1.48		p/m-Xylene	0.41	0.013	1.48	
Chloroform	0.28	0.058	23.7		Styrene	0.010	0.0063	1.48	
Chloromethane	ND	0.0015	1.48		Tert-Amyl-Methyl Ether (TAME)	ND	0.012	1.48	
Dibromochloromethane	ND	0.0063	1.48		Tert-Butyl Alcohol (TBA)	ND	0.0090	1.48	
Dichlorodifluoromethane	ND	0.0037	1.48		Tetrachloroethene	ND	0.0050	1.48	
Diisopropyl Ether (DIPE)	ND	0.012	1.48		Toluene	0.23	0.045	23.7	
1,1-Dichloroethane	ND	0.0030	1.48		Trichloroethene	0.044	0.0040	1.48	
1,1-Dichloroethene	0.0084	0.0029	1.48		Trichlorofluoromethane	ND	0.0083	1.48	
1,2-Dibromoethane	ND	0.0057	1.48		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.017	0.011	1.48	
Dichlorotetrafluoroethane	ND	0.021	1.48		1,1,1-Trichloroethane	0.025	0.0040	1.48	
1,2-Dichlorobenzene	ND	0.0044	1.48		1,1,2-Trichloroethane	ND	0.0040	1.48	
1,2-Dichloroethane	ND	0.0030	1.48		1,3,5-Trimethylbenzene	0.060	0.0036	1.48	
1,2-Dichloropropane	ND	0.0034	1.48		1,1,2,2-Tetrachloroethane	ND	0.010	1.48	
1,3-Dichlorobenzene	ND	0.0044	1.48		1,2,4-Trimethylbenzene	0.15	0.0073	1.48	
1,4-Dichlorobenzene	ND	0.0044	1.48		1,2,4-Trichlorobenzene	ND	0.022	1.48	
c-1,3-Dichloropropene	ND	0.0034	1.48		Vinyl Acetate	ND	0.010	1.48	
c-1,2-Dichloroethene	ND	0.0029	1.48		Vinyl Chloride	ND	0.0019	1.48	
t-1,2-Dichloroethene	ND	0.0029	1.48		1,1-Difluoroethane	ND	0.0080	1.48	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	104	57-129		1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	102	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-27-5	**08-12-2404-13-A**	**12/23/08 16:41**	**Air**	**GC/MS YY**	**N/A**	**12/24/08 22:19**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.057	0.0067	1.42		t-1,3-Dichloropropene	ND	0.0064	1.42	
Benzene	0.034	0.0023	1.42		Ethyl-t-Butyl Ether (ETBE)	ND	0.012	1.42	
Benzyl Chloride	ND	0.0074	1.42		Ethylbenzene	0.068	0.0031	1.42	
Bromodichloromethane	ND	0.0048	1.42		4-Ethyltoluene	0.026	0.0035	1.42	
Bromoform	ND	0.0073	1.42		Hexachloro-1,3-Butadiene	ND	0.015	1.42	
Bromomethane	ND	0.0028	1.42		2-Hexanone	0.0081	0.0058	1.42	
2-Butanone	0.024	0.0042	1.42		Methyl-t-Butyl Ether (MTBE)	ND	0.010	1.42	
Carbon Disulfide	0.039	0.0022	1.42		Methylene Chloride	ND	0.025	1.42	
Carbon Tetrachloride	ND	0.0045	1.42		4-Methyl-2-Pentanone	0.27	0.0058	1.42	
Chlorobenzene	ND	0.0033	1.42		o-Xylene	0.087	0.0031	1.42	
Chloroethane	ND	0.0019	1.42		p/m-Xylene	0.23	0.012	1.42	
Chloroform	0.25	0.055	22.7		Styrene	ND	0.0060	1.42	
Chloromethane	ND	0.0015	1.42		Tert-Amyl-Methyl Ether (TAME)	ND	0.012	1.42	
Dibromochloromethane	ND	0.0060	1.42		Tert-Butyl Alcohol (TBA)	ND	0.0086	1.42	
Dichlorodifluoromethane	ND	0.0035	1.42		Tetrachloroethene	ND	0.0048	1.42	
Diisopropyl Ether (DIPE)	ND	0.012	1.42		Toluene	0.24	0.0027	1.42	
1,1-Dichloroethane	ND	0.0029	1.42		Trichloroethene	0.010	0.0038	1.42	
1,1-Dichloroethene	0.014	0.0028	1.42		Trichlorofluoromethane	ND	0.0080	1.42	
1,2-Dibromoethane	ND	0.0055	1.42		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.011	1.42	
Dichlorotetrafluoroethane	ND	0.020	1.42		1,1,1-Trichloroethane	0.030	0.0039	1.42	
1,2-Dichlorobenzene	ND	0.0043	1.42		1,1,2-Trichloroethane	ND	0.0039	1.42	
1,2-Dichloroethane	ND	0.0029	1.42		1,3,5-Trimethylbenzene	0.029	0.0035	1.42	
1,2-Dichloropropane	ND	0.0033	1.42		1,1,2,2-Tetrachloroethane	ND	0.0097	1.42	
1,3-Dichlorobenzene	ND	0.0043	1.42		1,2,4-Trimethylbenzene	0.073	0.0070	1.42	
1,4-Dichlorobenzene	ND	0.0043	1.42		1,2,4-Trichlorobenzene	ND	0.021	1.42	
c-1,3-Dichloropropene	ND	0.0032	1.42		Vinyl Acetate	ND	0.010	1.42	
c-1,2-Dichloroethene	ND	0.0028	1.42		Vinyl Chloride	ND	0.0018	1.42	
t-1,2-Dichloroethene	ND	0.0028	1.42		1,1-Difluoroethane	0.021	0.0077	1.42	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	57-129		1,2-Dichloroethane-d4	93	47-137	
Toluene-d8	100	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-39-9.5	**08-12-2404-14-A**	**12/23/08 17:13**	**Air**	**GC/MS YY**	**N/A**	**12/24/08 23:03**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.022	0.0070	1.47		t-1,3-Dichloropropene	ND	0.0067	1.47	
Benzene	0.0041	0.0023	1.47		Ethyl-t-Butyl Ether (ETBE)	ND	0.012	1.47	
Benzyl Chloride	ND	0.0076	1.47		Ethylbenzene	0.0049	0.0032	1.47	
Bromodichloromethane	ND	0.0049	1.47		4-Ethyltoluene	ND	0.0036	1.47	
Bromoform	ND	0.0076	1.47		Hexachloro-1,3-Butadiene	ND	0.016	1.47	
Bromomethane	ND	0.0029	1.47		2-Hexanone	ND	0.0060	1.47	
2-Butanone	0.0047	0.0043	1.47		Methyl-t-Butyl Ether (MTBE)	ND	0.011	1.47	
Carbon Disulfide	0.0034	0.0023	1.47		Methylene Chloride	ND	0.026	1.47	
Carbon Tetrachloride	ND	0.0046	1.47		4-Methyl-2-Pentanone	ND	0.0060	1.47	
Chlorobenzene	ND	0.0034	1.47		o-Xylene	0.0061	0.0032	1.47	
Chloroethane	ND	0.0019	1.47		p/m-Xylene	0.017	0.013	1.47	
Chloroform	0.43	0.057	23.5		Styrene	ND	0.0063	1.47	
Chloromethane	ND	0.0015	1.47		Tert-Amyl-Methyl Ether (TAME)	ND	0.012	1.47	
Dibromochloromethane	ND	0.0063	1.47		Tert-Butyl Alcohol (TBA)	ND	0.0089	1.47	
Dichlorodifluoromethane	ND	0.0036	1.47		Tetrachloroethene	ND	0.0050	1.47	
Diisopropyl Ether (DIPE)	ND	0.012	1.47		Toluene	0.014	0.0028	1.47	
1,1-Dichloroethane	ND	0.0030	1.47		Trichloroethene	0.069	0.0039	1.47	
1,1-Dichloroethene	0.0079	0.0029	1.47		Trichlorofluoromethane	ND	0.0083	1.47	
1,2-Dibromoethane	ND	0.0056	1.47		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.011	1.47	
Dichlorotetrafluoroethane	ND	0.021	1.47		1,1,1-Trichloroethane	0.036	0.0040	1.47	
1,2-Dichlorobenzene	ND	0.0044	1.47		1,1,2-Trichloroethane	ND	0.0040	1.47	
1,2-Dichloroethane	ND	0.0030	1.47		1,3,5-Trimethylbenzene	ND	0.0036	1.47	
1,2-Dichloropropane	ND	0.0034	1.47		1,1,2,2-Tetrachloroethane	ND	0.010	1.47	
1,3-Dichlorobenzene	ND	0.0044	1.47		1,2,4-Trimethylbenzene	0.0075	0.0072	1.47	
1,4-Dichlorobenzene	ND	0.0044	1.47		1,2,4-Trichlorobenzene	ND	0.022	1.47	
c-1,3-Dichloropropene	ND	0.0033	1.47		Vinyl Acetate	ND	0.010	1.47	
c-1,2-Dichloroethene	ND	0.0029	1.47		Vinyl Chloride	ND	0.0019	1.47	
t-1,2-Dichloroethene	ND	0.0029	1.47		1,1-Difluoroethane	ND	0.0079	1.47	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	91	57-129		1,2-Dichloroethane-d4	89	47-137	
Toluene-d8	98	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-38-10	**08-12-2404-15-A**	**12/23/08 17:38**	**Air**	**GC/MS YY**	**N/A**	**12/24/08 23:48**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.038	0.0067	1.41		t-1,3-Dichloropropene	ND	0.0064	1.41	
Benzene	0.020	0.0023	1.41		Ethyl-t-Butyl Ether (ETBE)	ND	0.012	1.41	
Benzyl Chloride	ND	0.0073	1.41		Ethylbenzene	0.023	0.0031	1.41	
Bromodichloromethane	ND	0.0047	1.41		4-Ethyltoluene	0.0063	0.0035	1.41	
Bromoform	ND	0.0073	1.41		Hexachloro-1,3-Butadiene	ND	0.015	1.41	
Bromomethane	ND	0.0027	1.41		2-Hexanone	ND	0.0058	1.41	
2-Butanone	0.016	0.0042	1.41		Methyl-t-Butyl Ether (MTBE)	ND	0.010	1.41	
Carbon Disulfide	0.020	0.0022	1.41		Methylene Chloride	ND	0.024	1.41	
Carbon Tetrachloride	0.0052	0.0044	1.41		4-Methyl-2-Pentanone	0.14	0.0058	1.41	
Chlorobenzene	ND	0.0032	1.41		o-Xylene	0.020	0.0031	1.41	
Chloroethane	ND	0.0019	1.41		p/m-Xylene	0.063	0.012	1.41	
Chloroform	0.34	0.055	22.6		Styrene	ND	0.0060	1.41	
Chloromethane	ND	0.0015	1.41		Tert-Amyl-Methyl Ether (TAME)	ND	0.012	1.41	
Dibromochloromethane	ND	0.0060	1.41		Tert-Butyl Alcohol (TBA)	ND	0.0085	1.41	
Dichlorodifluoromethane	ND	0.0035	1.41		Tetrachloroethene	0.0059	0.0048	1.41	
Diisopropyl Ether (DIPE)	ND	0.012	1.41		Toluene	0.097	0.0027	1.41	
1,1-Dichloroethane	ND	0.0029	1.41		Trichloroethene	0.046	0.0038	1.41	
1,1-Dichloroethene	0.029	0.0028	1.41		Trichlorofluoromethane	ND	0.0079	1.41	
1,2-Dibromoethane	ND	0.0054	1.41		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.011	1.41	
Dichlorotetrafluoroethane	ND	0.020	1.41		1,1,1-Trichloroethane	0.050	0.0038	1.41	
1,2-Dichlorobenzene	ND	0.0042	1.41		1,1,2-Trichloroethane	ND	0.0038	1.41	
1,2-Dichloroethane	ND	0.0029	1.41		1,3,5-Trimethylbenzene	0.0072	0.0035	1.41	
1,2-Dichloropropane	ND	0.0033	1.41		1,1,2,2-Tetrachloroethane	ND	0.0097	1.41	
1,3-Dichlorobenzene	ND	0.0042	1.41		1,2,4-Trimethylbenzene	0.019	0.0069	1.41	
1,4-Dichlorobenzene	ND	0.0042	1.41		1,2,4-Trichlorobenzene	ND	0.021	1.41	
c-1,3-Dichloropropene	ND	0.0032	1.41		Vinyl Acetate	ND	0.0099	1.41	
c-1,2-Dichloroethene	ND	0.0028	1.41		Vinyl Chloride	ND	0.0018	1.41	
t-1,2-Dichloroethene	ND	0.0028	1.41		1,1-Difluoroethane	0.63	0.12	22.6	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	57-129		1,2-Dichloroethane-d4	88	47-137	
Toluene-d8	100	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-27-9.5	**08-12-2404-16-A**	**12/23/08 18:06**	**Air**	**GC/MS YY**	**N/A**	**12/25/08 00:32**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.027	0.0070	1.48		t-1,3-Dichloropropene	ND	0.0067	1.48	
Benzene	0.0043	0.0024	1.48		Ethyl-t-Butyl Ether (ETBE)	ND	0.012	1.48	
Benzyl Chloride	ND	0.0077	1.48		Ethylbenzene	0.0051	0.0032	1.48	
Bromodichloromethane	ND	0.0050	1.48		4-Ethyltoluene	ND	0.0036	1.48	
Bromoform	ND	0.0076	1.48		Hexachloro-1,3-Butadiene	ND	0.016	1.48	
Bromomethane	ND	0.0029	1.48		2-Hexanone	ND	0.0061	1.48	
2-Butanone	0.011	0.0044	1.48		Methyl-t-Butyl Ether (MTBE)	ND	0.011	1.48	
Carbon Disulfide	0.0023	0.0023	1.48		Methylene Chloride	ND	0.026	1.48	
Carbon Tetrachloride	ND	0.0047	1.48		4-Methyl-2-Pentanone	0.096	0.0061	1.48	
Chlorobenzene	ND	0.0034	1.48		o-Xylene	0.0060	0.0032	1.48	
Chloroethane	ND	0.0020	1.48		p/m-Xylene	0.016	0.013	1.48	
Chloroform	0.42	0.058	23.7		Styrene	ND	0.0063	1.48	
Chloromethane	ND	0.0015	1.48		Tert-Amyl-Methyl Ether (TAME)	ND	0.012	1.48	
Dibromochloromethane	ND	0.0063	1.48		Tert-Butyl Alcohol (TBA)	ND	0.0090	1.48	
Dichlorodifluoromethane	ND	0.0037	1.48		Tetrachloroethene	ND	0.0050	1.48	
Diisopropyl Ether (DIPE)	ND	0.012	1.48		Toluene	0.015	0.0028	1.48	
1,1-Dichloroethane	ND	0.0030	1.48		Trichloroethene	0.027	0.0040	1.48	
1,1-Dichloroethene	0.018	0.0029	1.48		Trichlorofluoromethane	ND	0.0083	1.48	
1,2-Dibromoethane	ND	0.0057	1.48		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.011	1.48	
Dichlorotetrafluoroethane	ND	0.021	1.48		1,1,1-Trichloroethane	0.041	0.0040	1.48	
1,2-Dichlorobenzene	ND	0.0044	1.48		1,1,2-Trichloroethane	ND	0.0040	1.48	
1,2-Dichloroethane	ND	0.0030	1.48		1,3,5-Trimethylbenzene	ND	0.0036	1.48	
1,2-Dichloropropane	ND	0.0034	1.48		1,1,2,2-Tetrachloroethane	ND	0.010	1.48	
1,3-Dichlorobenzene	ND	0.0044	1.48		1,2,4-Trimethylbenzene	ND	0.0073	1.48	
1,4-Dichlorobenzene	ND	0.0044	1.48		1,2,4-Trichlorobenzene	ND	0.022	1.48	
c-1,3-Dichloropropene	ND	0.0034	1.48		Vinyl Acetate	ND	0.010	1.48	
c-1,2-Dichloroethene	ND	0.0029	1.48		Vinyl Chloride	ND	0.0019	1.48	
t-1,2-Dichloroethene	ND	0.0029	1.48		1,1-Difluoroethane	0.013	0.0080	1.48	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	57-129		1,2-Dichloroethane-d4	89	47-137	
Toluene-d8	98	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-29-23.5	**08-12-2404-17-A**	**12/23/08 18:31**	**Air**	**GC/MS YY**	**N/A**	**12/25/08 01:16**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.078	0.0082	1.72		t-1,3-Dichloropropene	ND	0.0078	1.72	
Benzene	0.011	0.0027	1.72		Ethyl-t-Butyl Ether (ETBE)	ND	0.014	1.72	
Benzyl Chloride	ND	0.0089	1.72		Ethylbenzene	0.010	0.0037	1.72	
Bromodichloromethane	ND	0.0058	1.72		4-Ethyltoluene	ND	0.0042	1.72	
Bromoform	ND	0.0089	1.72		Hexachloro-1,3-Butadiene	ND	0.018	1.72	
Bromomethane	ND	0.0033	1.72		2-Hexanone	0.014	0.0070	1.72	
2-Butanone	0.037	0.0051	1.72		Methyl-t-Butyl Ether (MTBE)	ND	0.012	1.72	
Carbon Disulfide	0.0037	0.0027	1.72		Methylene Chloride	ND	0.030	1.72	
Carbon Tetrachloride	0.016	0.0054	1.72		4-Methyl-2-Pentanone	0.27	0.057	13.8	
Chlorobenzene	ND	0.0040	1.72		o-Xylene	0.011	0.0037	1.72	
Chloroethane	ND	0.0023	1.72		p/m-Xylene	0.031	0.015	1.72	
Chloroform	1.8	0.034	13.8		Styrene	ND	0.0073	1.72	
Chloromethane	ND	0.0018	1.72		Tert-Amyl-Methyl Ether (TAME)	ND	0.014	1.72	
Dibromochloromethane	ND	0.0073	1.72		Tert-Butyl Alcohol (TBA)	ND	0.010	1.72	
Dichlorodifluoromethane	ND	0.0043	1.72		Tetrachloroethene	0.012	0.0058	1.72	
Diisopropyl Ether (DIPE)	ND	0.014	1.72		Toluene	0.047	0.0032	1.72	
1,1-Dichloroethane	0.0058	0.0035	1.72		Trichloroethene	0.36	0.0046	1.72	
1,1-Dichloroethene	0.10	0.0034	1.72		Trichlorofluoromethane	ND	0.0097	1.72	
1,2-Dibromoethane	ND	0.0066	1.72		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.019	0.013	1.72	
Dichlorotetrafluoroethane	ND	0.024	1.72		1,1,1-Trichloroethane	0.11	0.0047	1.72	
1,2-Dichlorobenzene	ND	0.0052	1.72		1,1,2-Trichloroethane	0.016	0.0047	1.72	
1,2-Dichloroethane	ND	0.0035	1.72		1,3,5-Trimethylbenzene	0.0047	0.0042	1.72	
1,2-Dichloropropane	ND	0.0040	1.72		1,1,2,2-Tetrachloroethane	ND	0.012	1.72	
1,3-Dichlorobenzene	ND	0.0052	1.72		1,2,4-Trimethylbenzene	0.014	0.0085	1.72	
1,4-Dichlorobenzene	ND	0.0052	1.72		1,2,4-Trichlorobenzene	ND	0.026	1.72	
c-1,3-Dichloropropene	ND	0.0039	1.72		Vinyl Acetate	ND	0.012	1.72	
c-1,2-Dichloroethene	ND	0.0034	1.72		Vinyl Chloride	ND	0.0022	1.72	
t-1,2-Dichloroethene	ND	0.0034	1.72		1,1-Difluoroethane	ND	0.0093	1.72	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	57-129		1,2-Dichloroethane-d4	87	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-33-9.5	**08-12-2404-18-A**	**12/23/08 15:12**	**Air**	**GC/MS YY**	**N/A**	**12/25/08 02:00**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.015	0.0068	1.43		t-1,3-Dichloropropene	ND	0.0065	1.43	
Benzene	0.012	0.0023	1.43		Ethyl-t-Butyl Ether (ETBE)	ND	0.012	1.43	
Benzyl Chloride	ND	0.0074	1.43		Ethylbenzene	0.033	0.0031	1.43	
Bromodichloromethane	ND	0.0048	1.43		4-Ethyltoluene	0.016	0.0035	1.43	
Bromoform	ND	0.0074	1.43		Hexachloro-1,3-Butadiene	ND	0.015	1.43	
Bromomethane	ND	0.0028	1.43		2-Hexanone	ND	0.0059	1.43	
2-Butanone	ND	0.0042	1.43		Methyl-t-Butyl Ether (MTBE)	ND	0.010	1.43	
Carbon Disulfide	0.0071	0.0022	1.43		Methylene Chloride	ND	0.025	1.43	
Carbon Tetrachloride	ND	0.0045	1.43		4-Methyl-2-Pentanone	ND	0.0059	1.43	
Chlorobenzene	ND	0.0033	1.43		o-Xylene	0.039	0.0031	1.43	
Chloroethane	ND	0.0019	1.43		p/m-Xylene	0.11	0.012	1.43	
Chloroform	0.55	0.014	5.72		Styrene	ND	0.0061	1.43	
Chloromethane	ND	0.0015	1.43		Tert-Amyl-Methyl Ether (TAME)	ND	0.012	1.43	
Dibromochloromethane	ND	0.0061	1.43		Tert-Butyl Alcohol (TBA)	ND	0.0087	1.43	
Dichlorodifluoromethane	ND	0.0035	1.43		Tetrachloroethene	ND	0.0048	1.43	
Diisopropyl Ether (DIPE)	ND	0.012	1.43		Toluene	0.084	0.0027	1.43	
1,1-Dichloroethane	ND	0.0029	1.43		Trichloroethene	0.068	0.0038	1.43	
1,1-Dichloroethene	0.0035	0.0028	1.43		Trichlorofluoromethane	ND	0.0080	1.43	
1,2-Dibromoethane	ND	0.0055	1.43		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.014	0.011	1.43	
Dichlorotetrafluoroethane	ND	0.020	1.43		1,1,1-Trichloroethane	0.023	0.0039	1.43	
1,2-Dichlorobenzene	ND	0.0043	1.43		1,1,2-Trichloroethane	ND	0.0039	1.43	
1,2-Dichloroethane	ND	0.0029	1.43		1,3,5-Trimethylbenzene	0.018	0.0035	1.43	
1,2-Dichloropropane	ND	0.0033	1.43		1,1,2,2-Tetrachloroethane	ND	0.0098	1.43	
1,3-Dichlorobenzene	ND	0.0043	1.43		1,2,4-Trimethylbenzene	0.041	0.0070	1.43	
1,4-Dichlorobenzene	ND	0.0043	1.43		1,2,4-Trichlorobenzene	ND	0.021	1.43	
c-1,3-Dichloropropene	ND	0.0032	1.43		Vinyl Acetate	ND	0.010	1.43	
c-1,2-Dichloroethene	ND	0.0028	1.43		Vinyl Chloride	ND	0.0018	1.43	
t-1,2-Dichloroethene	ND	0.0028	1.43		1,1-Difluoroethane	0.024	0.0077	1.43	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	57-129		1,2-Dichloroethane-d4	86	47-137	
Toluene-d8	98	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-33-5	**08-12-2404-19-A**	**12/23/08 15:54**	**Air**	**GC/MS YY**	**N/A**	**12/25/08 02:44**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.066	0.0067	1.42		t-1,3-Dichloropropene	ND	0.0064	1.42	
Benzene	0.014	0.0023	1.42		Ethyl-t-Butyl Ether (ETBE)	ND	0.012	1.42	
Benzyl Chloride	ND	0.0074	1.42		Ethylbenzene	0.050	0.0031	1.42	
Bromodichloromethane	ND	0.0048	1.42		4-Ethyltoluene	0.025	0.0035	1.42	
Bromoform	ND	0.0073	1.42		Hexachloro-1,3-Butadiene	ND	0.015	1.42	
Bromomethane	ND	0.0028	1.42		2-Hexanone	ND	0.0058	1.42	
2-Butanone	0.0095	0.0042	1.42		Methyl-t-Butyl Ether (MTBE)	ND	0.010	1.42	
Carbon Disulfide	0.0026	0.0022	1.42		Methylene Chloride	ND	0.025	1.42	
Carbon Tetrachloride	ND	0.0045	1.42		4-Methyl-2-Pentanone	0.0080	0.0058	1.42	
Chlorobenzene	ND	0.0033	1.42		o-Xylene	0.063	0.0031	1.42	
Chloroethane	ND	0.0019	1.42		p/m-Xylene	0.19	0.012	1.42	
Chloroform	0.31	0.0035	1.42		Styrene	ND	0.0060	1.42	
Chloromethane	ND	0.0015	1.42		Tert-Amyl-Methyl Ether (TAME)	ND	0.012	1.42	
Dibromochloromethane	ND	0.0060	1.42		Tert-Butyl Alcohol (TBA)	ND	0.0086	1.42	
Dichlorodifluoromethane	ND	0.0035	1.42		Tetrachloroethene	ND	0.0048	1.42	
Diisopropyl Ether (DIPE)	ND	0.012	1.42		Toluene	0.14	0.0027	1.42	
1,1-Dichloroethane	ND	0.0029	1.42		Trichloroethene	0.031	0.0038	1.42	
1,1-Dichloroethene	ND	0.0028	1.42		Trichlorofluoromethane	ND	0.0080	1.42	
1,2-Dibromoethane	ND	0.0055	1.42		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.011	1.42	
Dichlorotetrafluoroethane	ND	0.020	1.42		1,1,1-Trichloroethane	0.016	0.0039	1.42	
1,2-Dichlorobenzene	ND	0.0043	1.42		1,1,2-Trichloroethane	ND	0.0039	1.42	
1,2-Dichloroethane	ND	0.0029	1.42		1,3,5-Trimethylbenzene	0.031	0.0035	1.42	
1,2-Dichloropropane	ND	0.0033	1.42		1,1,2,2-Tetrachloroethane	ND	0.0097	1.42	
1,3-Dichlorobenzene	ND	0.0043	1.42		1,2,4-Trimethylbenzene	0.078	0.0070	1.42	
1,4-Dichlorobenzene	ND	0.0043	1.42		1,2,4-Trichlorobenzene	ND	0.021	1.42	
c-1,3-Dichloropropene	ND	0.0032	1.42		Vinyl Acetate	ND	0.010	1.42	
c-1,2-Dichloroethene	ND	0.0028	1.42		Vinyl Chloride	ND	0.0018	1.42	
t-1,2-Dichloroethene	ND	0.0028	1.42		1,1-Difluoroethane	0.066	0.0077	1.42	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	57-129		1,2-Dichloroethane-d4	87	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-30-5	**08-12-2404-20-A**	**12/23/08 16:19**	**Air**	**GC/MS YY**	**N/A**	**12/25/08 03:29**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.047	0.0067	1.41		t-1,3-Dichloropropene	ND	0.0064	1.41	
Benzene	0.013	0.0023	1.41		Ethyl-t-Butyl Ether (ETBE)	ND	0.012	1.41	
Benzyl Chloride	ND	0.0073	1.41		Ethylbenzene	0.010	0.0031	1.41	
Bromodichloromethane	ND	0.0047	1.41		4-Ethyltoluene	0.0049	0.0035	1.41	
Bromoform	ND	0.0073	1.41		Hexachloro-1,3-Butadiene	ND	0.015	1.41	
Bromomethane	ND	0.0027	1.41		2-Hexanone	0.0094	0.0058	1.41	
2-Butanone	0.026	0.0042	1.41		Methyl-t-Butyl Ether (MTBE)	ND	0.010	1.41	
Carbon Disulfide	0.0065	0.0022	1.41		Methylene Chloride	ND	0.024	1.41	
Carbon Tetrachloride	ND	0.0044	1.41		4-Methyl-2-Pentanone	0.28	0.023	5.64	
Chlorobenzene	ND	0.0032	1.41		o-Xylene	0.012	0.0031	1.41	
Chloroethane	ND	0.0019	1.41		p/m-Xylene	0.033	0.012	1.41	
Chloroform	0.19	0.0034	1.41		Styrene	ND	0.0060	1.41	
Chloromethane	ND	0.0015	1.41		Tert-Amyl-Methyl Ether (TAME)	ND	0.012	1.41	
Dibromochloromethane	ND	0.0060	1.41		Tert-Butyl Alcohol (TBA)	ND	0.0085	1.41	
Dichlorodifluoromethane	ND	0.0035	1.41		Tetrachloroethene	ND	0.0048	1.41	
Diisopropyl Ether (DIPE)	ND	0.012	1.41		Toluene	0.056	0.0027	1.41	
1,1-Dichloroethane	ND	0.0029	1.41		Trichloroethene	0.0079	0.0038	1.41	
1,1-Dichloroethene	0.0063	0.0028	1.41		Trichlorofluoromethane	ND	0.0079	1.41	
1,2-Dibromoethane	ND	0.0054	1.41		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.011	1.41	
Dichlorotetrafluoroethane	ND	0.020	1.41		1,1,1-Trichloroethane	0.013	0.0038	1.41	
1,2-Dichlorobenzene	ND	0.0042	1.41		1,1,2-Trichloroethane	ND	0.0038	1.41	
1,2-Dichloroethane	ND	0.0029	1.41		1,3,5-Trimethylbenzene	0.0061	0.0035	1.41	
1,2-Dichloropropane	ND	0.0033	1.41		1,1,2,2-Tetrachloroethane	ND	0.0097	1.41	
1,3-Dichlorobenzene	ND	0.0042	1.41		1,2,4-Trimethylbenzene	0.018	0.0069	1.41	
1,4-Dichlorobenzene	ND	0.0042	1.41		1,2,4-Trichlorobenzene	ND	0.021	1.41	
c-1,3-Dichloropropene	ND	0.0032	1.41		Vinyl Acetate	ND	0.0099	1.41	
c-1,2-Dichloroethene	ND	0.0028	1.41		Vinyl Chloride	ND	0.0018	1.41	
t-1,2-Dichloroethene	ND	0.0028	1.41		1,1-Difluoroethane	0.15	0.0076	1.41	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	57-129		1,2-Dichloroethane-d4	88	47-137	
Toluene-d8	100	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-29-5	**08-12-2404-21-A**	**12/23/08 16:47**	**Air**	**GC/MS YY**	**N/A**	**12/25/08 04:13**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.094	0.0075	1.57		t-1,3-Dichloropropene	ND	0.0071	1.57	
Benzene	0.0084	0.0025	1.57		Ethyl-t-Butyl Ether (ETBE)	ND	0.013	1.57	
Benzyl Chloride	ND	0.0081	1.57		Ethylbenzene	0.0068	0.0034	1.57	
Bromodichloromethane	ND	0.0053	1.57		4-Ethyltoluene	0.0050	0.0039	1.57	
Bromoform	ND	0.0081	1.57		Hexachloro-1,3-Butadiene	ND	0.017	1.57	
Bromomethane	ND	0.0030	1.57		2-Hexanone	0.011	0.0064	1.57	
2-Butanone	0.059	0.0046	1.57		Methyl-t-Butyl Ether (MTBE)	ND	0.011	1.57	
Carbon Disulfide	0.0045	0.0024	1.57		Methylene Chloride	ND	0.027	1.57	
Carbon Tetrachloride	ND	0.0049	1.57		4-Methyl-2-Pentanone	0.16	0.10	25.1	
Chlorobenzene	ND	0.0036	1.57		o-Xylene	0.0089	0.0034	1.57	
Chloroethane	ND	0.0021	1.57		p/m-Xylene	0.023	0.014	1.57	
Chloroform	0.15	0.0038	1.57		Styrene	ND	0.0067	1.57	
Chloromethane	ND	0.0016	1.57		Tert-Amyl-Methyl Ether (TAME)	ND	0.013	1.57	
Dibromochloromethane	ND	0.0067	1.57		Tert-Butyl Alcohol (TBA)	ND	0.0095	1.57	
Dichlorodifluoromethane	ND	0.0039	1.57		Tetrachloroethene	ND	0.0053	1.57	
Diisopropyl Ether (DIPE)	ND	0.013	1.57		Toluene	0.025	0.0030	1.57	
1,1-Dichloroethane	ND	0.0032	1.57		Trichloroethene	0.026	0.0042	1.57	
1,1-Dichloroethene	0.0053	0.0031	1.57		Trichlorofluoromethane	ND	0.0088	1.57	
1,2-Dibromoethane	ND	0.0060	1.57		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.012	1.57	
Dichlorotetrafluoroethane	ND	0.022	1.57		1,1,1-Trichloroethane	0.020	0.0043	1.57	
1,2-Dichlorobenzene	ND	0.0047	1.57		1,1,2-Trichloroethane	ND	0.0043	1.57	
1,2-Dichloroethane	ND	0.0032	1.57		1,3,5-Trimethylbenzene	0.0060	0.0039	1.57	
1,2-Dichloropropane	ND	0.0036	1.57		1,1,2,2-Tetrachloroethane	ND	0.011	1.57	
1,3-Dichlorobenzene	ND	0.0047	1.57		1,2,4-Trimethylbenzene	0.020	0.0077	1.57	
1,4-Dichlorobenzene	ND	0.0047	1.57		1,2,4-Trichlorobenzene	ND	0.023	1.57	
c-1,3-Dichloropropene	ND	0.0036	1.57		Vinyl Acetate	ND	0.011	1.57	
c-1,2-Dichloroethene	ND	0.0031	1.57		Vinyl Chloride	ND	0.0020	1.57	
t-1,2-Dichloroethene	ND	0.0031	1.57		1,1-Difluoroethane	1.3	0.14	25.1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	57-129		1,2-Dichloroethane-d4	87	47-137	
Toluene-d8	98	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-33-24.5	**08-12-2404-22-A**	**12/23/08 17:11**	**Air**	**GC/MS YY**	**N/A**	**12/25/08 04:59**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.028	0.0071	1.5		t-1,3-Dichloropropene	ND	0.0068	1.5	
Benzene	0.0037	0.0024	1.5		Ethyl-t-Butyl Ether (ETBE)	ND	0.013	1.5	
Benzyl Chloride	ND	0.0078	1.5		Ethylbenzene	ND	0.0033	1.5	
Bromodichloromethane	ND	0.0050	1.5		4-Ethyltoluene	ND	0.0037	1.5	
Bromoform	ND	0.0078	1.5		Hexachloro-1,3-Butadiene	ND	0.016	1.5	
Bromomethane	ND	0.0029	1.5		2-Hexanone	ND	0.0061	1.5	
2-Butanone	0.0046	0.0044	1.5		Methyl-t-Butyl Ether (MTBE)	ND	0.011	1.5	
Carbon Disulfide	ND	0.0023	1.5		Methylene Chloride	ND	0.026	1.5	
Carbon Tetrachloride	ND	0.0047	1.5		4-Methyl-2-Pentanone	ND	0.0061	1.5	
Chlorobenzene	ND	0.0035	1.5		o-Xylene	ND	0.0033	1.5	
Chloroethane	ND	0.0020	1.5		p/m-Xylene	ND	0.013	1.5	
Chloroform	1.2	0.037	15		Styrene	ND	0.0064	1.5	
Chloromethane	ND	0.0015	1.5		Tert-Amyl-Methyl Ether (TAME)	ND	0.013	1.5	
Dibromochloromethane	ND	0.0064	1.5		Tert-Butyl Alcohol (TBA)	ND	0.0091	1.5	
Dichlorodifluoromethane	ND	0.0037	1.5		Tetrachloroethene	0.0074	0.0051	1.5	
Diisopropyl Ether (DIPE)	ND	0.013	1.5		Toluene	0.0061	0.0028	1.5	
1,1-Dichloroethane	ND	0.0030	1.5		Trichloroethene	0.16	0.0040	1.5	
1,1-Dichloroethene	0.015	0.0030	1.5		Trichlorofluoromethane	0.011	0.0084	1.5	
1,2-Dibromoethane	ND	0.0058	1.5		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.018	0.011	1.5	
Dichlorotetrafluoroethane	ND	0.021	1.5		1,1,1-Trichloroethane	0.030	0.0041	1.5	
1,2-Dichlorobenzene	ND	0.0045	1.5		1,1,2-Trichloroethane	ND	0.0041	1.5	
1,2-Dichloroethane	ND	0.0030	1.5		1,3,5-Trimethylbenzene	ND	0.0037	1.5	
1,2-Dichloropropane	ND	0.0035	1.5		1,1,2,2-Tetrachloroethane	ND	0.010	1.5	
1,3-Dichlorobenzene	ND	0.0045	1.5		1,2,4-Trimethylbenzene	ND	0.0074	1.5	
1,4-Dichlorobenzene	ND	0.0045	1.5		1,2,4-Trichlorobenzene	ND	0.022	1.5	
c-1,3-Dichloropropene	ND	0.0034	1.5		Vinyl Acetate	ND	0.011	1.5	
c-1,2-Dichloroethene	ND	0.0030	1.5		Vinyl Chloride	ND	0.0019	1.5	
t-1,2-Dichloroethene	ND	0.0030	1.5		1,1-Difluoroethane	0.013	0.0081	1.5	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	89	57-129		1,2-Dichloroethane-d4	87	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-30-10	**08-12-2404-23-A**	**12/23/08 17:40**	**Air**	**GC/MS YY**	**N/A**	**12/25/08 05:47**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.051	0.0074	1.55		t-1,3-Dichloropropene	ND	0.0070	1.55	
Benzene	0.0079	0.0025	1.55		Ethyl-t-Butyl Ether (ETBE)	ND	0.013	1.55	
Benzyl Chloride	ND	0.0080	1.55		Ethylbenzene	0.011	0.0034	1.55	
Bromodichloromethane	ND	0.0052	1.55		4-Ethyltoluene	0.0061	0.0038	1.55	
Bromoform	ND	0.0080	1.55		Hexachloro-1,3-Butadiene	ND	0.017	1.55	
Bromomethane	ND	0.0030	1.55		2-Hexanone	ND	0.0063	1.55	
2-Butanone	0.021	0.0046	1.55		Methyl-t-Butyl Ether (MTBE)	ND	0.011	1.55	
Carbon Disulfide	0.0076	0.0024	1.55		Methylene Chloride	ND	0.027	1.55	
Carbon Tetrachloride	ND	0.0049	1.55		4-Methyl-2-Pentanone	0.15	0.0063	1.55	
Chlorobenzene	ND	0.0036	1.55		o-Xylene	0.015	0.0034	1.55	
Chloroethane	ND	0.0020	1.55		p/m-Xylene	0.037	0.013	1.55	
Chloroform	0.42	0.015	6.2		Styrene	ND	0.0066	1.55	
Chloromethane	ND	0.0016	1.55		Tert-Amyl-Methyl Ether (TAME)	ND	0.013	1.55	
Dibromochloromethane	ND	0.0066	1.55		Tert-Butyl Alcohol (TBA)	ND	0.0094	1.55	
Dichlorodifluoromethane	ND	0.0038	1.55		Tetrachloroethene	ND	0.0053	1.55	
Diisopropyl Ether (DIPE)	ND	0.013	1.55		Toluene	0.032	0.0029	1.55	
1,1-Dichloroethane	ND	0.0031	1.55		Trichloroethene	0.034	0.0042	1.55	
1,1-Dichloroethene	0.017	0.0031	1.55		Trichlorofluoromethane	ND	0.0087	1.55	
1,2-Dibromoethane	ND	0.0060	1.55		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.012	1.55	
Dichlorotetrafluoroethane	ND	0.022	1.55		1,1,1-Trichloroethane	0.040	0.0042	1.55	
1,2-Dichlorobenzene	ND	0.0047	1.55		1,1,2-Trichloroethane	ND	0.0042	1.55	
1,2-Dichloroethane	ND	0.0031	1.55		1,3,5-Trimethylbenzene	0.0073	0.0038	1.55	
1,2-Dichloropropane	ND	0.0036	1.55		1,1,2,2-Tetrachloroethane	ND	0.011	1.55	
1,3-Dichlorobenzene	ND	0.0047	1.55		1,2,4-Trimethylbenzene	0.021	0.0076	1.55	
1,4-Dichlorobenzene	ND	0.0047	1.55		1,2,4-Trichlorobenzene	ND	0.023	1.55	
c-1,3-Dichloropropene	ND	0.0035	1.55		Vinyl Acetate	ND	0.011	1.55	
c-1,2-Dichloroethene	ND	0.0031	1.55		Vinyl Chloride	ND	0.0020	1.55	
t-1,2-Dichloroethene	ND	0.0031	1.55		1,1-Difluoroethane	0.011	0.0084	1.55	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	89	57-129		1,2-Dichloroethane-d4	87	47-137	
Toluene-d8	96	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-29-15	**08-12-2404-24-A**	**12/23/08 18:04**	**Air**	**GC/MS YY**	**N/A**	**12/25/08 06:33**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.065	0.0068	1.44		t-1,3-Dichloropropene	ND	0.0065	1.44	
Benzene	0.028	0.0023	1.44		Ethyl-t-Butyl Ether (ETBE)	ND	0.012	1.44	
Benzyl Chloride	ND	0.0075	1.44		Ethylbenzene	0.032	0.0031	1.44	
Bromodichloromethane	ND	0.0048	1.44		4-Ethyltoluene	0.012	0.0035	1.44	
Bromoform	ND	0.0074	1.44		Hexachloro-1,3-Butadiene	ND	0.015	1.44	
Bromomethane	ND	0.0028	1.44		2-Hexanone	0.013	0.0059	1.44	
2-Butanone	0.035	0.0042	1.44		Methyl-t-Butyl Ether (MTBE)	ND	0.010	1.44	
Carbon Disulfide	0.0056	0.0022	1.44		Methylene Chloride	ND	0.025	1.44	
Carbon Tetrachloride	0.0052	0.0045	1.44		4-Methyl-2-Pentanone	0.37	0.024	5.76	
Chlorobenzene	ND	0.0033	1.44		o-Xylene	0.040	0.0031	1.44	
Chloroethane	ND	0.0019	1.44		p/m-Xylene	0.11	0.013	1.44	
Chloroform	0.16	0.0035	1.44		Styrene	ND	0.0061	1.44	
Chloromethane	0.0016	0.0015	1.44		Tert-Amyl-Methyl Ether (TAME)	ND	0.012	1.44	
Dibromochloromethane	ND	0.0061	1.44		Tert-Butyl Alcohol (TBA)	ND	0.0087	1.44	
Dichlorodifluoromethane	ND	0.0036	1.44		Tetrachloroethene	0.0050	0.0049	1.44	
Diisopropyl Ether (DIPE)	ND	0.012	1.44		Toluene	0.15	0.0027	1.44	
1,1-Dichloroethane	ND	0.0029	1.44		Trichloroethene	0.027	0.0039	1.44	
1,1-Dichloroethene	0.018	0.0029	1.44		Trichlorofluoromethane	ND	0.0081	1.44	
1,2-Dibromoethane	ND	0.0055	1.44		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.011	0.011	1.44	
Dichlorotetrafluoroethane	ND	0.020	1.44		1,1,1-Trichloroethane	0.027	0.0039	1.44	
1,2-Dichlorobenzene	ND	0.0043	1.44		1,1,2-Trichloroethane	ND	0.0039	1.44	
1,2-Dichloroethane	ND	0.0029	1.44		1,3,5-Trimethylbenzene	0.014	0.0035	1.44	
1,2-Dichloropropane	ND	0.0033	1.44		1,1,2,2-Tetrachloroethane	ND	0.0099	1.44	
1,3-Dichlorobenzene	ND	0.0043	1.44		1,2,4-Trimethylbenzene	0.040	0.0071	1.44	
1,4-Dichlorobenzene	ND	0.0043	1.44		1,2,4-Trichlorobenzene	ND	0.021	1.44	
c-1,3-Dichloropropene	ND	0.0033	1.44		Vinyl Acetate	ND	0.010	1.44	
c-1,2-Dichloroethene	ND	0.0029	1.44		Vinyl Chloride	ND	0.0018	1.44	
t-1,2-Dichloroethene	ND	0.0029	1.44		1,1-Difluoroethane	0.098	0.0078	1.44	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	57-129		1,2-Dichloroethane-d4	87	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG-028J-29-10	**08-12-2404-25-A**	**12/23/08 18:33**	**Air**	**GC/MS YY**	**N/A**	**12/25/08 07:19**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	0.043	0.0074	1.55		t-1,3-Dichloropropene	ND	0.0070	1.55	
Benzene	0.0038	0.0025	1.55		Ethyl-t-Butyl Ether (ETBE)	ND	0.013	1.55	
Benzyl Chloride	ND	0.0080	1.55		Ethylbenzene	0.0047	0.0034	1.55	
Bromodichloromethane	ND	0.0052	1.55		4-Ethyltoluene	ND	0.0038	1.55	
Bromoform	ND	0.0080	1.55		Hexachloro-1,3-Butadiene	ND	0.017	1.55	
Bromomethane	ND	0.0030	1.55		2-Hexanone	ND	0.0063	1.55	
2-Butanone	0.019	0.0046	1.55		Methyl-t-Butyl Ether (MTBE)	ND	0.011	1.55	
Carbon Disulfide	0.0028	0.0024	1.55		Methylene Chloride	ND	0.027	1.55	
Carbon Tetrachloride	0.0055	0.0049	1.55		4-Methyl-2-Pentanone	0.16	0.0063	1.55	
Chlorobenzene	ND	0.0036	1.55		o-Xylene	0.0063	0.0034	1.55	
Chloroethane	ND	0.0020	1.55		p/m-Xylene	0.016	0.013	1.55	
Chloroform	0.95	0.015	6.2		Styrene	ND	0.0066	1.55	
Chloromethane	ND	0.0016	1.55		Tert-Amyl-Methyl Ether (TAME)	ND	0.013	1.55	
Dibromochloromethane	ND	0.0066	1.55		Tert-Butyl Alcohol (TBA)	ND	0.0094	1.55	
Dichlorodifluoromethane	ND	0.0038	1.55		Tetrachloroethene	0.0066	0.0053	1.55	
Diisopropyl Ether (DIPE)	ND	0.013	1.55		Toluene	0.017	0.0029	1.55	
1,1-Dichloroethane	ND	0.0031	1.55		Trichloroethene	0.14	0.0042	1.55	
1,1-Dichloroethene	0.017	0.0031	1.55		Trichlorofluoromethane	ND	0.0087	1.55	
1,2-Dibromoethane	ND	0.0060	1.55		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.012	1.55	
Dichlorotetrafluoroethane	ND	0.022	1.55		1,1,1-Trichloroethane	0.077	0.0042	1.55	
1,2-Dichlorobenzene	ND	0.0047	1.55		1,1,2-Trichloroethane	ND	0.0042	1.55	
1,2-Dichloroethane	ND	0.0031	1.55		1,3,5-Trimethylbenzene	ND	0.0038	1.55	
1,2-Dichloropropane	ND	0.0036	1.55		1,1,2,2-Tetrachloroethane	ND	0.011	1.55	
1,3-Dichlorobenzene	ND	0.0047	1.55		1,2,4-Trimethylbenzene	ND	0.0076	1.55	
1,4-Dichlorobenzene	ND	0.0047	1.55		1,2,4-Trichlorobenzene	ND	0.023	1.55	
c-1,3-Dichloropropene	ND	0.0035	1.55		Vinyl Acetate	ND	0.011	1.55	
c-1,2-Dichloroethene	ND	0.0031	1.55		Vinyl Chloride	ND	0.0020	1.55	
t-1,2-Dichloroethene	ND	0.0031	1.55		1,1-Difluoroethane	ND	0.0084	1.55	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	57-129		1,2-Dichloroethane-d4	87	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TRIP BLANK	**08-12-2404-26-A**	**12/23/08 08:00**	**Air**	**GC/MS YY**	**N/A**	**12/24/08 20:51**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	0.0048	1		t-1,3-Dichloropropene	ND	0.0045	1	
Benzene	ND	0.0016	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1	
Benzyl Chloride	ND	0.0052	1		Ethylbenzene	ND	0.0022	1	
Bromodichloromethane	ND	0.0034	1		4-Ethyltoluene	ND	0.0025	1	
Bromoform	ND	0.0052	1		Hexachloro-1,3-Butadiene	ND	0.011	1	
Bromomethane	ND	0.0019	1		2-Hexanone	ND	0.0041	1	
2-Butanone	ND	0.0029	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1	
Carbon Disulfide	ND	0.0016	1		Methylene Chloride	ND	0.017	1	
Carbon Tetrachloride	ND	0.0031	1		4-Methyl-2-Pentanone	ND	0.0041	1	
Chlorobenzene	ND	0.0023	1		o-Xylene	ND	0.0022	1	
Chloroethane	ND	0.0013	1		p/m-Xylene	ND	0.0087	1	
Chloroform	ND	0.0024	1		Styrene	ND	0.0043	1	
Chloromethane	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1	
Dibromochloromethane	ND	0.0043	1		Tert-Butyl Alcohol (TBA)	ND	0.0061	1	
Dichlorodifluoromethane	ND	0.0025	1		Tetrachloroethene	ND	0.0034	1	
Diisopropyl Ether (DIPE)	ND	0.0084	1		Toluene	ND	0.0019	1	
1,1-Dichloroethane	ND	0.0020	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		Trichlorofluoromethane	ND	0.0056	1	
1,2-Dibromoethane	ND	0.0038	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0077	1	
Dichlorotetrafluoroethane	ND	0.014	1		1,1,1-Trichloroethane	ND	0.0027	1	
1,2-Dichlorobenzene	ND	0.0030	1		1,1,2-Trichloroethane	ND	0.0027	1	
1,2-Dichloroethane	ND	0.0020	1		1,3,5-Trimethylbenzene	ND	0.0025	1	
1,2-Dichloropropane	ND	0.0023	1		1,1,2,2-Tetrachloroethane	ND	0.0069	1	
1,3-Dichlorobenzene	ND	0.0030	1		1,2,4-Trimethylbenzene	ND	0.0049	1	
1,4-Dichlorobenzene	ND	0.0030	1		1,2,4-Trichlorobenzene	ND	0.015	1	
c-1,3-Dichloropropene	ND	0.0023	1		Vinyl Acetate	ND	0.0070	1	
c-1,2-Dichloroethene	ND	0.0020	1		Vinyl Chloride	ND	0.0013	1	
t-1,2-Dichloroethene	ND	0.0020	1		1,1-Difluoroethane	ND	0.0054	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	57-129		1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-7,046**	**N/A**	**Air**	**GC/MS YY**	**N/A**	**12/24/08 20:07**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	0.0048	1		t-1,3-Dichloropropene	ND	0.0045	1	
Benzene	ND	0.0016	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1	
Benzyl Chloride	ND	0.0052	1		Ethylbenzene	ND	0.0022	1	
Bromodichloromethane	ND	0.0034	1		4-Ethyltoluene	ND	0.0025	1	
Bromoform	ND	0.0052	1		Hexachloro-1,3-Butadiene	ND	0.011	1	
Bromomethane	ND	0.0019	1		2-Hexanone	ND	0.0041	1	
2-Butanone	ND	0.0029	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1	
Carbon Disulfide	ND	0.0016	1		Methylene Chloride	ND	0.017	1	
Carbon Tetrachloride	ND	0.0031	1		4-Methyl-2-Pentanone	ND	0.0041	1	
Chlorobenzene	ND	0.0023	1		o-Xylene	ND	0.0022	1	
Chloroethane	ND	0.0013	1		p/m-Xylene	ND	0.0087	1	
Chloroform	ND	0.0024	1		Styrene	ND	0.0043	1	
Chloromethane	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1	
Dibromochloromethane	ND	0.0043	1		Tert-Butyl Alcohol (TBA)	ND	0.0061	1	
Dichlorodifluoromethane	ND	0.0025	1		Tetrachloroethene	ND	0.0034	1	
Diisopropyl Ether (DIPE)	ND	0.0084	1		Toluene	ND	0.0019	1	
1,1-Dichloroethane	ND	0.0020	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		Trichlorofluoromethane	ND	0.0056	1	
1,2-Dibromoethane	ND	0.0038	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0077	1	
Dichlorotetrafluoroethane	ND	0.014	1		1,1,1-Trichloroethane	ND	0.0027	1	
1,2-Dichlorobenzene	ND	0.0030	1		1,1,2-Trichloroethane	ND	0.0027	1	
1,2-Dichloroethane	ND	0.0020	1		1,3,5-Trimethylbenzene	ND	0.0025	1	
1,2-Dichloropropane	ND	0.0023	1		1,1,2,2-Tetrachloroethane	ND	0.0069	1	
1,3-Dichlorobenzene	ND	0.0030	1		1,2,4-Trimethylbenzene	ND	0.0049	1	
1,4-Dichlorobenzene	ND	0.0030	1		1,2,4-Trichlorobenzene	ND	0.015	1	
c-1,3-Dichloropropene	ND	0.0023	1		Vinyl Acetate	ND	0.0070	1	
c-1,2-Dichloroethene	ND	0.0020	1		Vinyl Chloride	ND	0.0013	1	
t-1,2-Dichloroethene	ND	0.0020	1		1,1-Difluoroethane	ND	0.0054	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	57-129		1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	98	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-7,047**	**N/A**	**Air**	**GC/MS II**	**N/A**	**12/24/08 12:24**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	0.0048	1		t-1,3-Dichloropropene	ND	0.0045	1	
Benzene	ND	0.0016	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1	
Benzyl Chloride	ND	0.0052	1		Ethylbenzene	ND	0.0022	1	
Bromodichloromethane	ND	0.0034	1		4-Ethyltoluene	ND	0.0025	1	
Bromoform	ND	0.0052	1		Hexachloro-1,3-Butadiene	ND	0.011	1	
Bromomethane	ND	0.0019	1		2-Hexanone	ND	0.0041	1	
2-Butanone	ND	0.0029	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1	
Carbon Disulfide	ND	0.0016	1		Methylene Chloride	ND	0.017	1	
Carbon Tetrachloride	ND	0.0031	1		4-Methyl-2-Pentanone	ND	0.0041	1	
Chlorobenzene	ND	0.0023	1		o-Xylene	ND	0.0022	1	
Chloroethane	ND	0.0013	1		p/m-Xylene	ND	0.0087	1	
Chloroform	ND	0.0024	1		Styrene	ND	0.0043	1	
Chloromethane	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1	
Dibromochloromethane	ND	0.0043	1		Tert-Butyl Alcohol (TBA)	ND	0.0061	1	
Dichlorodifluoromethane	ND	0.0025	1		Tetrachloroethene	ND	0.0034	1	
Diisopropyl Ether (DIPE)	ND	0.0084	1		Toluene	ND	0.0019	1	
1,1-Dichloroethane	ND	0.0020	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		Trichlorofluoromethane	ND	0.0056	1	
1,2-Dibromoethane	ND	0.0038	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0077	1	
Dichlorotetrafluoroethane	ND	0.014	1		1,1,1-Trichloroethane	ND	0.0027	1	
1,2-Dichlorobenzene	ND	0.0030	1		1,1,2-Trichloroethane	ND	0.0027	1	
1,2-Dichloroethane	ND	0.0020	1		1,3,5-Trimethylbenzene	ND	0.0025	1	
1,2-Dichloropropane	ND	0.0023	1		1,1,2,2-Tetrachloroethane	ND	0.0069	1	
1,3-Dichlorobenzene	ND	0.0030	1		1,2,4-Trimethylbenzene	ND	0.0049	1	
1,4-Dichlorobenzene	ND	0.0030	1		1,2,4-Trichlorobenzene	ND	0.015	1	
c-1,3-Dichloropropene	ND	0.0023	1		Vinyl Acetate	ND	0.0070	1	
c-1,2-Dichloroethene	ND	0.0020	1		Vinyl Chloride	ND	0.0013	1	
t-1,2-Dichloroethene	ND	0.0020	1		1,1-Difluoroethane	ND	0.0054	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	104	57-129		1,2-Dichloroethane-d4	112	47-137	
Toluene-d8	101	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-7,048**	**N/A**	**Air**	**GC/MS II**	**N/A**	**12/27/08 11:47**	**081227L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	0.0048	1		t-1,3-Dichloropropene	ND	0.0045	1	
Benzene	ND	0.0016	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1	
Benzyl Chloride	ND	0.0052	1		Ethylbenzene	ND	0.0022	1	
Bromodichloromethane	ND	0.0034	1		4-Ethyltoluene	ND	0.0025	1	
Bromoform	ND	0.0052	1		Hexachloro-1,3-Butadiene	ND	0.011	1	
Bromomethane	ND	0.0019	1		2-Hexanone	ND	0.0041	1	
2-Butanone	ND	0.0029	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1	
Carbon Disulfide	ND	0.0016	1		Methylene Chloride	ND	0.017	1	
Carbon Tetrachloride	ND	0.0031	1		4-Methyl-2-Pentanone	ND	0.0041	1	
Chlorobenzene	ND	0.0023	1		o-Xylene	ND	0.0022	1	
Chloroethane	ND	0.0013	1		p/m-Xylene	ND	0.0087	1	
Chloroform	ND	0.0024	1		Styrene	ND	0.0043	1	
Chloromethane	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1	
Dibromochloromethane	ND	0.0043	1		Tert-Butyl Alcohol (TBA)	ND	0.0061	1	
Dichlorodifluoromethane	ND	0.0025	1		Tetrachloroethene	ND	0.0034	1	
Diisopropyl Ether (DIPE)	ND	0.0084	1		Toluene	ND	0.0019	1	
1,1-Dichloroethane	ND	0.0020	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		Trichlorofluoromethane	ND	0.0056	1	
1,2-Dibromoethane	ND	0.0038	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0077	1	
Dichlorotetrafluoroethane	ND	0.014	1		1,1,1-Trichloroethane	ND	0.0027	1	
1,2-Dichlorobenzene	ND	0.0030	1		1,1,2-Trichloroethane	ND	0.0027	1	
1,2-Dichloroethane	ND	0.0020	1		1,3,5-Trimethylbenzene	ND	0.0025	1	
1,2-Dichloropropane	ND	0.0023	1		1,1,2,2-Tetrachloroethane	ND	0.0069	1	
1,3-Dichlorobenzene	ND	0.0030	1		1,2,4-Trimethylbenzene	ND	0.0049	1	
1,4-Dichlorobenzene	ND	0.0030	1		1,2,4-Trichlorobenzene	ND	0.015	1	
c-1,3-Dichloropropene	ND	0.0023	1		Vinyl Acetate	ND	0.0070	1	
c-1,2-Dichloroethene	ND	0.0020	1		Vinyl Chloride	ND	0.0013	1	
t-1,2-Dichloroethene	ND	0.0020	1		1,1-Difluoroethane	ND	0.0054	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	57-129		1,2-Dichloroethane-d4	105	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-7,049**	**N/A**	**Air**	**GC/MS YY**	**N/A**	**12/27/08 13:26**	**081227L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	0.0048	1		t-1,3-Dichloropropene	ND	0.0045	1	
Benzene	ND	0.0016	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1	
Benzyl Chloride	ND	0.0052	1		Ethylbenzene	ND	0.0022	1	
Bromodichloromethane	ND	0.0034	1		4-Ethyltoluene	ND	0.0025	1	
Bromoform	ND	0.0052	1		Hexachloro-1,3-Butadiene	ND	0.011	1	
Bromomethane	ND	0.0019	1		2-Hexanone	ND	0.0041	1	
2-Butanone	ND	0.0029	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1	
Carbon Disulfide	ND	0.0016	1		Methylene Chloride	ND	0.017	1	
Carbon Tetrachloride	ND	0.0031	1		4-Methyl-2-Pentanone	ND	0.0041	1	
Chlorobenzene	ND	0.0023	1		o-Xylene	ND	0.0022	1	
Chloroethane	ND	0.0013	1		p/m-Xylene	ND	0.0087	1	
Chloroform	ND	0.0024	1		Styrene	ND	0.0043	1	
Chloromethane	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1	
Dibromochloromethane	ND	0.0043	1		Tert-Butyl Alcohol (TBA)	ND	0.0061	1	
Dichlorodifluoromethane	ND	0.0025	1		Tetrachloroethene	ND	0.0034	1	
Diisopropyl Ether (DIPE)	ND	0.0084	1		Toluene	ND	0.0019	1	
1,1-Dichloroethane	ND	0.0020	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		Trichlorofluoromethane	ND	0.0056	1	
1,2-Dibromoethane	ND	0.0038	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0077	1	
Dichlorotetrafluoroethane	ND	0.014	1		1,1,1-Trichloroethane	ND	0.0027	1	
1,2-Dichlorobenzene	ND	0.0030	1		1,1,2-Trichloroethane	ND	0.0027	1	
1,2-Dichloroethane	ND	0.0020	1		1,3,5-Trimethylbenzene	ND	0.0025	1	
1,2-Dichloropropane	ND	0.0023	1		1,1,2,2-Tetrachloroethane	ND	0.0069	1	
1,3-Dichlorobenzene	ND	0.0030	1		1,2,4-Trimethylbenzene	ND	0.0049	1	
1,4-Dichlorobenzene	ND	0.0030	1		1,2,4-Trichlorobenzene	ND	0.015	1	
c-1,3-Dichloropropene	ND	0.0023	1		Vinyl Acetate	ND	0.0070	1	
c-1,2-Dichloroethene	ND	0.0020	1		Vinyl Chloride	ND	0.0013	1	
t-1,2-Dichloroethene	ND	0.0020	1		1,1-Difluoroethane	ND	0.0054	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	88	57-129		1,2-Dichloroethane-d4	100	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/L

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-7,051**	**N/A**	**Air**	**GC/MS II**	**N/A**	**12/29/08 14:21**	**081229L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	0.0048	1		t-1,3-Dichloropropene	ND	0.0045	1	
Benzene	ND	0.0016	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1	
Benzyl Chloride	ND	0.0052	1		Ethylbenzene	ND	0.0022	1	
Bromodichloromethane	ND	0.0034	1		4-Ethyltoluene	ND	0.0025	1	
Bromoform	ND	0.0052	1		Hexachloro-1,3-Butadiene	ND	0.011	1	
Bromomethane	ND	0.0019	1		2-Hexanone	ND	0.0041	1	
2-Butanone	ND	0.0029	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1	
Carbon Disulfide	ND	0.0016	1		Methylene Chloride	ND	0.017	1	
Carbon Tetrachloride	ND	0.0031	1		4-Methyl-2-Pentanone	ND	0.0041	1	
Chlorobenzene	ND	0.0023	1		o-Xylene	ND	0.0022	1	
Chloroethane	ND	0.0013	1		p/m-Xylene	ND	0.0087	1	
Chloroform	ND	0.0024	1		Styrene	ND	0.0043	1	
Chloromethane	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1	
Dibromochloromethane	ND	0.0043	1		Tert-Butyl Alcohol (TBA)	ND	0.0061	1	
Dichlorodifluoromethane	ND	0.0025	1		Tetrachloroethene	ND	0.0034	1	
Diisopropyl Ether (DIPE)	ND	0.0084	1		Toluene	ND	0.0019	1	
1,1-Dichloroethane	ND	0.0020	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		Trichlorofluoromethane	ND	0.0056	1	
1,2-Dibromoethane	ND	0.0038	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0077	1	
Dichlorotetrafluoroethane	ND	0.014	1		1,1,1-Trichloroethane	ND	0.0027	1	
1,2-Dichlorobenzene	ND	0.0030	1		1,1,2-Trichloroethane	ND	0.0027	1	
1,2-Dichloroethane	ND	0.0020	1		1,3,5-Trimethylbenzene	ND	0.0025	1	
1,2-Dichloropropane	ND	0.0023	1		1,1,2,2-Tetrachloroethane	ND	0.0069	1	
1,3-Dichlorobenzene	ND	0.0030	1		1,2,4-Trimethylbenzene	ND	0.0049	1	
1,4-Dichlorobenzene	ND	0.0030	1		1,2,4-Trichlorobenzene	ND	0.015	1	
c-1,3-Dichloropropene	ND	0.0023	1		Vinyl Acetate	ND	0.0070	1	
c-1,2-Dichloroethene	ND	0.0020	1		Vinyl Chloride	ND	0.0013	1	
t-1,2-Dichloroethene	ND	0.0020	1		1,1-Difluoroethane	ND	0.0054	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	57-129		1,2-Dichloroethane-d4	106	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ENVIRON
6001 Shellmound Street, Ste 700
Emeryville, CA 94608-1958

Date Received: N/A
Work Order No: 08-12-2404
Preparation: N/A
Method: EPA TO-15

Project: Hitachi - GST / 03-11903E

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-7,047	**Air**	**GC/MS II**	**N/A**	**12/24/08**	**081224L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	120	109	60-156	44-172	10	0-40	
Carbon Tetrachloride	143	130	64-154	49-169	10	0-32	
1,2-Dibromoethane	123	112	54-144	39-159	9	0-36	
1,2-Dichlorobenzene	122	110	34-160	13-181	10	0-47	
1,2-Dichloroethane	137	124	69-153	55-167	10	0-30	
1,2-Dichloropropane	123	112	67-157	52-172	9	0-35	
1,4-Dichlorobenzene	124	112	36-156	16-176	10	0-47	
c-1,3-Dichloropropene	139	127	61-157	45-173	9	0-35	
Ethylbenzene	127	116	52-154	35-171	9	0-38	
o-Xylene	128	117	52-148	36-164	9	0-38	
p/m-Xylene	120	110	42-156	23-175	9	0-41	
Tetrachloroethene	118	109	56-152	40-168	8	0-40	
Toluene	118	108	56-146	41-161	9	0-43	
Trichloroethene	122	112	63-159	47-175	9	0-34	
1,1,2-Trichloroethane	124	113	65-149	51-163	10	0-37	
Vinyl Chloride	141	128	45-177	23-199	9	0-36	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ENVIRON		Date Received:	N/A
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2404
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15

Project: Hitachi - GST / 03-11903E

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-7,046	**Air**	**GC/MS YY**	**N/A**	**12/24/08**	**081224L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	102	103	60-156	44-172	1	0-40	
Carbon Tetrachloride	100	100	64-154	49-169	1	0-32	
1,2-Dibromoethane	103	105	54-144	39-159	2	0-36	
1,2-Dichlorobenzene	107	110	34-160	13-181	3	0-47	
1,2-Dichloroethane	100	99	69-153	55-167	1	0-30	
1,2-Dichloropropane	101	102	67-157	52-172	1	0-35	
1,4-Dichlorobenzene	107	110	36-156	16-176	2	0-47	
c-1,3-Dichloropropene	107	108	61-157	45-173	1	0-35	
Ethylbenzene	106	109	52-154	35-171	3	0-38	
o-Xylene	104	106	52-148	36-164	2	0-38	
p/m-Xylene	101	103	42-156	23-175	2	0-41	
Tetrachloroethene	100	102	56-152	40-168	3	0-40	
Toluene	99	101	56-146	41-161	2	0-43	
Trichloroethene	99	100	63-159	47-175	1	0-34	
1,1,2-Trichloroethane	103	104	65-149	51-163	1	0-37	
Vinyl Chloride	104	104	45-177	23-199	0	0-36	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ENVIRON
6001 Shellmound Street, Ste 700
Emeryville, CA 94608-1958

Date Received: N/A
Work Order No: 08-12-2404
Preparation: N/A
Method: EPA TO-15

Project: Hitachi - GST / 03-11903E

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-7,048	**Air**	**GC/MS II**	**N/A**	**12/27/08**	**081227L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	106	105	60-156	44-172	1	0-40	
Carbon Tetrachloride	118	116	64-154	49-169	2	0-32	
1,2-Dibromoethane	109	108	54-144	39-159	2	0-36	
1,2-Dichlorobenzene	109	107	34-160	13-181	2	0-47	
1,2-Dichloroethane	116	114	69-153	55-167	1	0-30	
1,2-Dichloropropane	110	109	67-157	52-172	1	0-35	
1,4-Dichlorobenzene	111	109	36-156	16-176	2	0-47	
c-1,3-Dichloropropene	122	121	61-157	45-173	1	0-35	
Ethylbenzene	113	111	52-154	35-171	2	0-38	
o-Xylene	113	111	52-148	36-164	2	0-38	
p/m-Xylene	106	104	42-156	23-175	2	0-41	
Tetrachloroethene	107	105	56-152	40-168	1	0-40	
Toluene	106	104	56-146	41-161	3	0-43	
Trichloroethene	107	105	63-159	47-175	2	0-34	
1,1,2-Trichloroethane	109	108	65-149	51-163	1	0-37	
Vinyl Chloride	121	123	45-177	23-199	2	0-36	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ENVIRON
6001 Shellmound Street, Ste 700
Emeryville, CA 94608-1958

Date Received: N/A
Work Order No: 08-12-2404
Preparation: N/A
Method: EPA TO-15

Project: Hitachi - GST / 03-11903E

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-7,049	**Air**	**GC/MS YY**	**N/A**	**12/27/08**	**081227L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	109	105	60-156	44-172	4	0-40	
Carbon Tetrachloride	107	102	64-154	49-169	5	0-32	
1,2-Dibromoethane	108	109	54-144	39-159	0	0-36	
1,2-Dichlorobenzene	112	112	34-160	13-181	0	0-47	
1,2-Dichloroethane	106	101	69-153	55-167	5	0-30	
1,2-Dichloropropane	107	104	67-157	52-172	4	0-35	
1,4-Dichlorobenzene	111	111	36-156	16-176	0	0-47	
c-1,3-Dichloropropene	114	109	61-157	45-173	4	0-35	
Ethylbenzene	112	111	52-154	35-171	1	0-38	
o-Xylene	110	108	52-148	36-164	2	0-38	
p/m-Xylene	107	106	42-156	23-175	1	0-41	
Tetrachloroethene	106	107	56-152	40-168	1	0-40	
Toluene	104	105	56-146	41-161	0	0-43	
Trichloroethene	106	102	63-159	47-175	4	0-34	
1,1,2-Trichloroethane	108	104	65-149	51-163	4	0-37	
Vinyl Chloride	101	99	45-177	23-199	2	0-36	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ENVIRON
6001 Shellmound Street, Ste 700
Emeryville, CA 94608-1958

Date Received: N/A
Work Order No: 08-12-2404
Preparation: N/A
Method: EPA TO-15

Project: Hitachi - GST / 03-11903E

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-7,051	**Air**	**GC/MS II**	**N/A**	**12/29/08**	**081229L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	106	98	60-156	44-172	7	0-40	
Carbon Tetrachloride	120	114	64-154	49-169	5	0-32	
1,2-Dibromoethane	107	101	54-144	39-159	6	0-36	
1,2-Dichlorobenzene	108	97	34-160	13-181	11	0-47	
1,2-Dichloroethane	116	106	69-153	55-167	9	0-30	
1,2-Dichloropropane	110	101	67-157	52-172	8	0-35	
1,4-Dichlorobenzene	110	99	36-156	16-176	10	0-47	
c-1,3-Dichloropropene	123	113	61-157	45-173	8	0-35	
Ethylbenzene	112	101	52-154	35-171	10	0-38	
o-Xylene	112	101	52-148	36-164	10	0-38	
p/m-Xylene	105	95	42-156	23-175	10	0-41	
Tetrachloroethene	105	100	56-152	40-168	5	0-40	
Toluene	105	97	56-146	41-161	8	0-43	
Trichloroethene	107	100	63-159	47-175	7	0-34	
1,1,2-Trichloroethane	109	100	65-149	51-163	9	0-37	
Vinyl Chloride	125	117	45-177	23-199	6	0-36	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-12-2404

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

ENVIRON
6001 Shellmound Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

CHAIN-of-CUSTODY

2404

01352

PROJECT NAME / FACILITY ID: HITACHI GST FIELD PERSON: C. RITCHIE

PROJECT NUMBER: 0311903E DATE: 12/23/08 PROJECT MANAGER: A. GATES

PROJECT LOCATION: SAN JOSE LABORATORY: CALSCIENCE

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: WO#:

SAMPLER: C. RITCHIE

SIGNATURE:

	SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 08)	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: VOCs by TO-15							COMMENTS
1	SG-028J-30-23	12/23	1107	23	G	1	U	N	X							Add 1,1-DFA
2	SG-028J-33-24.5		1032	24.5												TO TO-15 LIST
3	SG-028J-39-23.5		0927	23.5												
4	SG-028J-99-23.5		0930	23.5												RESULTS TO
5	SG-028J-38-15		1135	15												CHRIS RITCHIE
6	SG-028J-27-15		1206	15												critchie@environcorp.
7	SG-028J-36-25.5		1339	25.5												com
8	SG-028J-36-5		1414	5												510-418-0535
9	SG-028J-36-10		1444	10												
10	SG-028J-36-15		1512	15												
	TOTAL	X	X	X	X	10	X	X	10							

RELINQUISHED BY: C	TIME/DATE: 1117 12/24/08	RECEIVED BY: (COMPANY):	TIME/DATE: 11:24 12/24/08
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT: Y N Temp

IF SEALED, SEAL INTEGRITY: INTACT: Y N

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

ENVIRON
6001 Shellmound Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

CHAIN-of-CUSTODY

(2404)

01353

PROJECT NAME / FACILITY ID: HITACHI-GT FIELD PERSON: C. MITCHIE

PROJECT NUMBER: 031903E DATE: 12/23/08 PROJECT MANAGER: A. GATES

PROJECT LOCATION: SAN JOSE LABORATORY: CALCULENUS

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: WO#:

SAMPLER: C. MITCHIE

SIGNATURE:

	SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 08)	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: TO-15 VOCs								COMMENTS
11	SG-028J-39-5	12/23	1541	5	G	1	U	N	X								Add 1,1-DFA
12	SG-028J-39-13.5		1610	13.5													
13	SG-028J-27-5		1641	5													
14	SG-028J-39-9.5		1713	9.5													
15	SG-028J-38-10		1758	10													
16	SG-028J-27-9.5		1806	9.5													
17	SG-028J-29-23.5		1831	23.5													
18	SG-028J-33-5		1512	5													
19	SG-028J-33-9.5		1554	9.5													
20	SG-028J-30-5		1619	5													
	TOTAL	X	X	X	X	10	X	X	10								

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

RELINQUISHED BY:	TIME/DATE: 1117 12/24/08	RECEIVED BY:	TIME/DATE: 11:24 12/24/08
		(COMPANY): --	
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:
		(COMPANY):	
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:
		(COMPANY):	

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY — INTACT: Y N Temp_____

IF SEALED, SEAL INTEGRITY — INTACT: Y N

ENVIRON
6001 Shellmound Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

CHAIN-of-CUSTODY

2404

01356

PROJECT NAME / FACILITY ID: HITACHI - GST FIELD PERSON: C. RITCHIE

PROJECT NUMBER: 031190 3E DATE: 12/23/08 PROJECT MANAGER: A. GATES

PROJECT LOCATION: SAN JOSE LABORATORY: CALSCIENCE

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: WO#:

SAMPLER: C. RITCHIE

SIGNATURE:

	SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 08)	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: VOCs by TO-15								COMMENTS
21	SG-0285-29-5	12/23	1647	5	G	1	U	N	X								Add 1-1, DPA
22	SG-028J-33-13.7	12/23	1711	13.7	G	1	U	N	X								to TO-15 List
23	SG-028J-30-10	12/23	1740	10	G	1	U	N	X								
24	SG-028J-29-15	12/23	1804	15	G	1	U	N	X								
25	SG-028J-29-10	12/23	1833	10	G	1	U	N	X								
26	TRIP BLANK	12/23	0800	—	G	1	U	N	X								
	TOTAL	X	X	X	X	6	X	X	6								

RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE: 11:24 12/24/08
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY — INTACT: Y N Temp

IF SEALED, SEAL INTEGRITY — INTACT: Y N

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-12-2404

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: Environ

DATE: 12/12/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature ____.____ °C - 0.2 °C (CF) = ____.____ °C ☐ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☑ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** [illegible]

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☑ N/A **Initial:** [illegible]

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** WB

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☐	☐	☑
Volatile analysis container(s) free of headspace.....	☐	☐	☑
Tedlar bag(s) free of condensation.....	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☑Summa® ☐_____

Checked/Labeled by: WB

Reviewed by: PS

Scanned by: WB

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Ranjit Clarke

From: Chris Ritchie [critchie@Environcorp.com]
Sent: Saturday, December 27, 2008 10:13 PM
To: Ranjit Clarke
Cc: Anne Gates
Subject: Corrections for Samples Submitted on 12/24/08
Importance: High

Ranjit,
After reviewing field logs today, it appears that we mislabeled the sample IDs on four of our summa canisters that we sampled on December 23rd and submitted on December 24th. Please see below:

"SG-028J-33-24.5" sampled at 1032 should have been labeled "SG-028J-33-13.7";
"SG-028J-33-13.7" sampled at 1711 should have been labeled "SG-028J-33-24.5";
"SG-028J-33-5" sampled at 1512 should have been labeled "SG-028J-33-9.5"; and
"SG-028J-33-9.5" sampled at 1554 should have been labeled "SG-028J-33-5".

Please correct the sample IDs before preparing the report. Contact me if you have any questions.

Thanks!

Chris J. Ritchie
Senior Associate
ENVIRON International Corporation
6001 Shellmound Street Suite 700
Emeryville, CA 94608
510.655.7400
Fax: 510.655.9517
critchie@environcorp.com

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Calscience Environmental Laboratories, Inc.

Supplemental Report 1

December 31, 2008

The original report has been revised/corrected.

Anne Gates
ENVIRON
6001 Shellmound Street, Ste 700
Emeryville, CA 94608-1958

Subject: **Calscience Work Order No.: 08-12-2405**
Client Reference: Hitachi - GST / 03-11903E

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/24/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

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

Sincerely,

//original signed by//

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2405
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
ATMLC-1	**08-12-2405-1-A**	**12/23/08 14:17**	**Air**	**GC/MS II**	**N/A**	**12/24/08 17:47**	**081224L01**

Parameter	Result	RL	DF	Qual	Units
1,1-Difluoroethane	4.5	0.22	40		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	104	57-129	
1,2-Dichloroethane-d4	110	47-137	
Toluene-d8	99	78-156	

ATMLC-2	**08-12-2405-2-A**	**12/23/08 15:15**	**Air**	**GC/MS II**	**N/A**	**12/25/08 04:09**	**081224L01**

Parameter	Result	RL	DF	Qual	Units
1,1-Difluoroethane	28000	1500	280000		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	57-129	
1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	99	78-156	

ATMLC-3	**08-12-2405-3-A**	**12/23/08 18:36**	**Air**	**GC/MS II**	**N/A**	**12/24/08 19:16**	**081224L01**

Parameter	Result	RL	DF	Qual	Units
1,1-Difluoroethane	2600	110	20000		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	103	57-129	
1,2-Dichloroethane-d4	113	47-137	
Toluene-d8	99	78-156	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ENVIRON		Date Received:	12/24/08
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2405
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15

Project: Hitachi - GST / 03-11903E

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-7,047**	**N/A**	**Air**	**GC/MS II**	**N/A**	**12/24/08 12:24**	**081224L01**

Parameter	Result	RL	DF	Qual	Units
1,1-Difluoroethane	ND	0.0054	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	104	57-129	
1,2-Dichloroethane-d4	112	47-137	
Toluene-d8	101	78-156	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ENVIRON		Date Received:	N/A
6001 Shellmound Street, Ste 700		Work Order No:	08-12-2405
Emeryville, CA 94608-1958		Preparation:	N/A
		Method:	EPA TO-15

Project: Hitachi - GST / 03-11903E

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-7,047	**Air**	**GC/MS II**	**N/A**	**12/24/08**	**081224L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	120	109	60-156	44-172	10	0-40	
Carbon Tetrachloride	143	130	64-154	49-169	10	0-32	
1,2-Dibromoethane	123	112	54-144	39-159	9	0-36	
1,2-Dichlorobenzene	122	110	34-160	13-181	10	0-47	
1,2-Dichloroethane	137	124	69-153	55-167	10	0-30	
1,2-Dichloropropane	123	112	67-157	52-172	9	0-35	
1,4-Dichlorobenzene	124	112	36-156	16-176	10	0-47	
c-1,3-Dichloropropene	139	127	61-157	45-173	9	0-35	
Ethylbenzene	127	116	52-154	35-171	9	0-38	
o-Xylene	128	117	52-148	36-164	9	0-38	
p/m-Xylene	120	110	42-156	23-175	9	0-41	
Tetrachloroethene	118	109	56-152	40-168	8	0-40	
Toluene	118	108	56-146	41-161	9	0-43	
Trichloroethene	122	112	63-159	47-175	9	0-34	
1,1,2-Trichloroethane	124	113	65-149	51-163	10	0-37	
Vinyl Chloride	141	128	45-177	23-199	9	0-36	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-12-2405

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

ENVIRON
6001 Shellmound Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

CHAIN-of-CUSTODY

2405

01357

PROJECT NAME / FACILITY ID: HITACHI GST
FIELD PERSON: C. RITCHIE
PROJECT NUMBER: 0311903E
DATE: 12/23/08
PROJECT MANAGER: A. GATES
PROJECT LOCATION: SAN JOSE
LABORATORY: CALSCIENCE
IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: C. RITCHIE
SIGNATURE: C

	SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 08)	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: 1,1-DFA by TO-15								COMMENTS
1	ATMLC-1	12/23	1417	—	G	1	u	N	X								1,1-difluoroethane
2	ATMLC-2	12/23	1515	—	G	1	u	N	X								(1,1-DFA)
3	ATMLC-3	12/23	1836	—	G	1	u	N	X								only
	TOTAL	X	X	X	X	3	X	X	3								

RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:
[illegible]	[illegible]	(COMPANY): [illegible]	[illegible]
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY — INTACT: Y N Temp_____

IF SEALED, SEAL INTEGRITY — INTACT: Y N

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-12-2405

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: Environ

DATE: 12/24/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature _____.____ °C - 0.2 °C (CF) = _____.____ °C ☐ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☑ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** [illegible]

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☑ N/A **Initial:** [illegible]

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** WB

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☐	☐	☑
Volatile analysis container(s) free of headspace.....	☐	☐	☑
Tedlar bag(s) free of condensation.....	☑	☐	☐

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☑125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☑Tedlar® ☐Summa® ☐_____

Checked/Labeled by: WB

Reviewed by: [illegible]

Scanned by: WB

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH