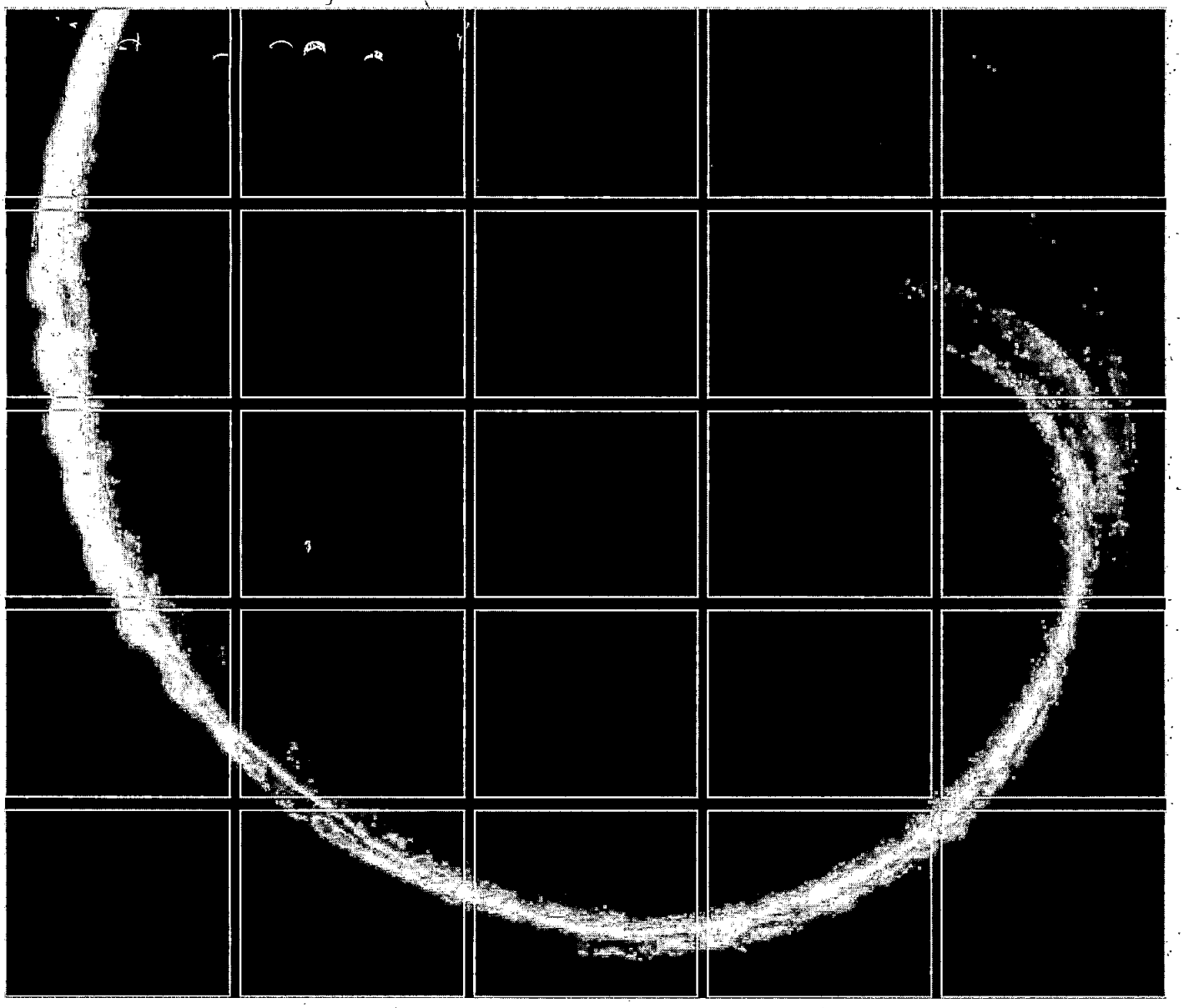

Attorney-Client Privileged Work Product

Source Area Removal and Remedial Action Pilot Study

Snohomish Square Cleaners
1419 Avenue D
Snohomish, Washington

November 2007

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Skotdal Real Estate

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November 2007

Project No. 0048167.03

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1.0 INTRODUCTION

This report presents the results of a Source Area Removal and Remedial Action Pilot Study (pilot study) completed by ERM-West, Inc. (ERM), on behalf of Skotdal Real Estate (Skotdal), at the Snohomish Square Laundry and Cleaners facility in the Snohomish Square Shopping Center at 1419 Avenue D in Snohomish, Washington (the "Site," Figure 1). This report includes details related to three phases of work:

- Removal of source area soils in August and September 2006;
- Completion of a bench-scale remediation study between April and October 2006; and
- Completion of a pilot study of enhanced anaerobic biological remediation between November 2006 and May 2007.

The Source Area Removal was conducted to reduce the mass of volatile organic compounds (VOCs) in soil that were acting as a continuing source for ground water contamination. The bench- and pilot-scale testing activities were performed to evaluate the preferred remedial options identified in the *Feasibility Study* (ERM 2005) for the remediation of VOCs in ground water.

This report is organized as follows:

- Section 1.0 presents an introduction;
- Section 2.0 summarizes site background and characterization information;
- Section 3.0 summarizes the Source Area Removal;
- Section 4.0 summarizes the bench-scale remedial testing;
- Section 5.0 summarizes the pilot study field activities;
- Section 6.0 includes the pilot study results and discussion;
- Section 7.0 presents conclusions and recommendations for future remedial actions; and
- Section 8.0 includes references cited in this report.

2.0 SITE CHARACTERIZATION SUMMARY

This section provides general background and historical information regarding the site and the surrounding area, as well as a summary of site investigation activities completed to date. This discussion includes summaries of the remedial investigation history, site geology and hydrogeology, occurrence of compounds of concern, investigation results, and contaminant fate and transport. A more detailed discussion of this information is presented in the *Supplemental Site Investigation Report* (ERM 2005).

2.1 SITE DESCRIPTION

The Snohomish Square Shopping Center is at 1419 Avenue D in the city of Snohomish in Snohomish County, Washington (Figure 1). The shopping center consists of several buildings occupied by retail shops, restaurants, a United States Post Office, and a supermarket (Figure 2). The dry cleaner facility (i.e., the "Site") is located near the northern boundary of the shopping center. The ground surface at the shopping center is mostly paved with some landscaped areas.

2.1.1 *Geologic Setting*

The lithology of shallow soils (less than 15 feet below ground surface [bgs]) at the site varies considerably and is composed of laterally discontinuous deposits of silt, sand, and gravel, and mixtures thereof. A very dense mixture of silt, sand, and gravel was consistently encountered below depths of approximately 10 to 15 feet bgs. These lithologies suggest that the soils at the site consist of a basal glacial till overlain by up to 15 feet of ablation till.

2.1.2 *Hydrogeologic Setting*

The depth of ground water encountered during site drilling activities varied from 9 to 17 feet bgs. There also appear to be small, scattered, discontinuous areas of perched ground water between 4 to 6 feet bgs that appear to be seasonal in nature. Ground water is typically encountered within the ablation till unit at the site, and the observed effective saturated thickness of the aquifer ranges from approximately 2 to 6 feet based on the depth to the top of the basal till unit. The inferred direction of ground

water flow is generally to the south-southwest at an average gradient of 0.0059.

2.2 *SITE CONTAMINATION*

This section presents a summary of contamination detected at the site. Detailed descriptions of conditions encountered during site investigation activities are included in the following reports:

- *Preliminary Subsurface Investigation, Snohomish Square Laundry and Cleaners, 1419 Avenue D, Snohomish, Washington* (Golder 2003);
- *Preliminary Ground Water Investigation, Snohomish Square Laundry and Cleaners, 1419 Avenue D, Snohomish, Washington* (Golder 2004); and
- *Supplemental Site Investigation Report, Snohomish Square Laundry and Cleaners, 1419 Avenue D, Snohomish, Washington* (ERM 2005).

2.2.1 *Soil*

Soil boring locations are shown in Figure 2, and soil analytical results are summarized in Table 1. The investigation results indicate that two areas of soil contamination are present at the site, each having tetrachloroethene (PCE) concentrations greater than the Model Toxics Control Act (MTCA) Method A Soil Cleanup Level for Unrestricted Land Uses (Chapter 173-340-900 Washington Administrative Code) of 0.05 milligrams per kilogram (mg/kg):

- A small volume of soil (an estimated 1 cubic yard) beneath the current location of the dry cleaning machinery in the facility; and
- An estimated 150 cubic yards of soil in the vicinity of an area of distressed vegetation observed in a planter box north of the dry cleaning facility (Figure 2).

No other VOCs were detected at concentrations greater than applicable MTCA cleanup levels in soil samples collected from the site.

2.2.2 *Ground Water*

The locations of ground water samples collected from borings and monitoring wells completed during site investigation activities are shown in Figure 2, and ground water analytical results are summarized in Table 2. PCE was detected at concentrations greater than the MTCA Method A

Ground Water Cleanup Level of 5 micrograms per liter (µg/l) in site ground water samples. The PCE plume extends from the apparent source area near the northern site boundary toward the south-southwest, consistent with observed site ground water flow direction, and is approximately 700 feet long and up to 350 feet wide. The VOCs trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE) were also detected at concentrations greater than the respective MTCA Method A/B Ground Water Cleanup Levels (5 µg/l and 80 µg/l, respectively) in some ground water samples collected within the PCE plume.

Observed soil and ground water conditions indicate that overall aquifer conditions are not favorable for sustained natural degradation of PCE in ground water. This conclusion is supported by the empirical observation that only very low concentrations of the PCE degradation products TCE and cis-1,2-DCE were detected in site ground water. If robust natural degradation was occurring, significant concentrations of TCE, cis-1,2-DCE, and vinyl chloride should have been detected in ground water samples. Small areas within the aquifer appear to maintain conditions that are somewhat favorable to PCE biodegradation, as evidenced by the significant populations of the VOC-degrading *Dehalococcoides* and *Dehalobacter* bacteria detected in one ground water sample (Table 3).

2.3 *SITE INVESTIGATION SUMMARY – NOVEMBER 2005 AND APRIL 2006*

Two site investigation phases were completed in November 2005 and April 2006 using a direct-push drilling rig. Soil borings B-11 and B-13 through B-15 were completed in November 2005 to delineate the soil source area and upgradient ground water concentrations. Soil borings B-16 through B-22 were completed in April 2006 to more accurately delineate the area of excavation for the source area soil removal and to collect samples for the bench-scale remediation study. The boring locations are shown on Figure 2. Soil sample analytical results for borings B-13 through B-19 are summarized in Table 1. The results from a ground water sample collected from boring B-11 are summarized in Table 2. Laboratory analytical data reports for these investigations are included in Appendix A and boring logs are included as Appendix B.

The results of these soil investigations indicated that contaminated soils were generally located in the vicinity of the planter box, which had been previously identified as the likely source area. The ground water sample results from boring B-11 suggest that there is not likely to be an additional source of VOC contamination upgradient of the site.

3.0 SOURCE AREA EXCAVATION

This section summarizes the source area soil removal conducted in the vicinity of the planter box at the northern property boundary.

3.1 FIELD ACTIVITIES

Soils contaminated with PCE were excavated from the apparent PCE source area near the northern property boundary in August and September 2006 (Figure 2). The goal of the source area soil removal was to remove the residual PCE in soil that was acting as a continuing source of ground water contamination. The excavation was conducted by Environmental Tank Services Inc., of Auburn, Washington. Pictures of the excavation activities are included in Appendix C.

Soils characterized using pre-excavation and excavation limit soil samples containing PCE concentrations greater than the MTCA Method B soil cleanup value of 1.9 mg/kg were excavated and disposed as dangerous waste. With the approval of the Washington State Department of Ecology (Ecology), soils associated with samples containing PCE concentrations less than the MTCA Method B soil cleanup value, but greater than the MTCA Method A soil cleanup level of 0.05 mg/kg, were excavated and disposed as "contained-in" waste. Soils containing PCE concentrations less than the MTCA Method A soil cleanup level were considered compliant and were not excavated.

The soil removal action was completed in four phases. The approximate lateral extent of each excavation phase is shown on Figure 3. Excavation was completed to depths of approximately 8.5 to 9 feet bgs during each phase. Ground water was observed in local monitoring wells at a depth of approximately 9 to 10 feet bgs during excavation activities.

A total of approximately 415 tons of soil were excavated during the four excavation phases. The soil excavated during phases 1 and 2 (approximately 230 tons) was transported to the CWM-NW facility in Arlington, Oregon for direct disposal as F002-listed dangerous waste. Soil excavated during phases 3 and 4 (approximately 185 tons) met the "contained-in" criteria, and was transported to the Columbia Ridge Subtitle D Landfill for disposal.

Soil samples S-1 through S-24 were collected from the excavation side walls between 7 August 2006 and 14 August 2006. Sampling locations are shown on Figure 3. Three soil samples were also collected from the stockpile of excavated material. United States Environmental Protection Agency (USEPA) Method 5035A was used for soil sample collection and extraction, and the samples were analyzed for VOCs using USEPA Method 8260B.

3.2 *RESULTS*

Excavation-related soil sampling locations, depths, and results are summarized in Table 4. The laboratory analytical reports for the samples are included as Appendix A.

Several soil samples collected from the excavation sidewalls during the excavation process contained PCE at concentrations greater than the MTCA Method B soil cleanup value of 1.9 mg/kg. Additional excavation was completed in the vicinity of these samples. Each of the soil samples collected from the final excavation limits either contained no detectable PCE or contained PCE at a concentration less than the MTCA Method B soil cleanup value.

3.3 *SITE RESTORATION*

Site restoration activities included the backfill of the excavation with pea gravel; restoration of site paving, curbs and plantings; and repair/replacement of site sanitary and storm sewer utilities within the excavation area. During backfilling, a pair of horizontal slotted piping runs was also installed in the excavation area for use during future remedial action, if necessary. Pictures showing site restoration activities are included in Appendix C.

The source area soil removal required the disturbance of asphalt-paved areas on the site and on Fergusson Park Road, the removal of curbing and a planter box, and the disturbance of site sanitary and storm sewer utilities. Each of these site features was restored to as close as possible to the original condition. During site restoration, efforts were made to verify that the utilities were repaired to an appropriate slope for drainage and that the pavement was restored such that site storm water drained adequately toward catchments.

Two horizontal wells and associated piping were installed in the excavation backfill to provide access for future remediation if necessary. The approximate location and construction details for the horizontal wells are shown on Figure 3. Each of these wells is installed at a depth of approximately 8 feet bgs with a minimum of 0.5 foot of pea gravel set beneath the piping. The piping runs are constructed of 20 feet of 0.010-inch slotted 2-inch diameter PVC screen laid horizontally at angles from a central riser stub-out location. The riser for each piping run consists of 2-inch diameter blank PVC pipe with the stub-outs secured in a steel box located in the planter box.

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4.0 TECHNICAL AND BENCH TESTING SUMMARY

This section summarizes bench-scale remedial evaluation testing performed as part of the final remedial alternatives evaluation and selection process. This section summarizes procedures and results of soil sample analysis for soil oxidant demand (SOD) to evaluate the efficacy of in situ chemical oxidation, and the bench testing to evaluate the efficacy of enhanced anaerobic biological remediation.

4.1 SOIL OXIDANT DEMAND (SOD) TESTING

In situ chemical oxidation consists of introducing an oxidizer to a contaminated aquifer to degrade organic contaminants to non-toxic byproducts and is a proven technology for the in situ treatment of PCE and PCE degradation products. The technical and economic feasibility of this technology is highly dependent on the amount of chemical oxidant needed to overcome the natural SOD so that there is sufficient oxidant remaining to react with the target contaminants. If the SOD is high, the full-scale implementation of in situ chemical oxidation may be less feasible than other technologies due to the large mass of chemical oxidant required for oxidation of the naturally-occurring materials in the soil as well as the contaminants present.

A soil sample was collected from the approximate treatment interval at each of four borings (B-17, B-20, B-21, and B-22) and submitted to Terra Systems Inc. (Terra Systems) in Wilmington, Delaware, for SOD testing. The tests consisted of preparing several test containers with a known amount of soil from the same sampling location, and then adding an oxidant (potassium permanganate) into each container. The naturally-occurring SOD was determined in the samples by measuring the amount of oxidant remaining after oxidation was complete. The results of the SOD testing are included in Appendix D.

SOD values are reported in pounds of potassium permanganate required to oxidize one cubic yard of soil. With exception of one sample that was collected immediately downgradient of the source area, the measured SOD values were considered low to very low (2.9 pounds per cubic yard [lb/CY] to 0.42 lb/CY), indicating that chemical oxidation using potassium permanganate would likely be feasible at this Site. The SOD value measured in the sample collected near the source area (11 lb/CY) is

considered moderately high. This high SOD may be indicative of elevated concentrations of PCE present at this sampling location; therefore, this value may represent both the natural SOD and the contaminant-related chemical oxidant demand.

4.2 *ENHANCED ANAEROBIC BIOREMEDIATION BENCH-TESTING*

The bench-testing of enhanced anaerobic bioremediation was performed by Terra Systems over a 20-week period from May through October 2006. The bench test was designed to measure the relative performance of different biological amendments intended to increase PCE degradation rates by enhancing natural microbial activity. The presence of naturally-occurring microbes that degrade PCE under anaerobic conditions was confirmed by Terra Systems prior to initiating the tests. A summary of the TerraSystems bench-scale test results is included in Appendix D.

The bioremediation bench-scale test performed by TerraSystems measured the relative performance of different methods for reductive dechlorination of PCE contamination in site soil and ground water. Eight separate subtests were set up using soil collected from borings B-17, B-20, B-21, and B-22 and ground water collected from well MW-4. Four unamended samples were set up as control points for the test, including two samples that were sterilized to stunt any natural biological activity. Four amended samples, two each using either a soluble or a persistent carbon source, were set up to evaluate relative effectiveness. The carbon source amendments used were soluble sodium lactate and a soybean oil emulsion product. An equal mass of each amendment was added to the respective test volumes, resulting in a concentration of approximately 500 milligrams per liter (mg/l) (0.05 percent) of added carbon.

The eight subtest volumes were analyzed biweekly for 8 weeks and again at 12 weeks following preparation. The four amended subtests were also analyzed at 16 and 20 weeks following preparation. Generally, all of the amendment subtests exhibited reductive dechlorination behavior in the form of reduced concentrations of the source compound, PCE, subsequent increase of daughter products TCE, cis-1,2-DCE, and VC, followed by the eventual decrease of the daughter product concentrations and increase of ethene concentrations. The greatest contaminant reduction was observed in the samples amended with sodium lactate, where nearly complete destruction of PCE and resultant daughter products was observed within the 20-week period. However, this required dosing the soluble amendment subtests twice during the test period, as the high solubility

results in a faster utilization by the microbial population. The emulsified soybean oil subtests indicated reductive dechlorination is possible with this amendment, but the degradation activity of these subtests was slower than that observed during the sodium lactate subtests. In addition, the subtests using the emulsified soybean oil resulted in reduced pH, or a slightly acidic environment, which is likely to reduce microbial activity.

In general, the bench-scale testing results showed that enhanced anaerobic biological degradation of PCE can be stimulated in the soil/ground water environment present at the site. The full suite of PCE-degradation products, including ethane, was observed during the bench testing, indicating that complete breakdown of the PCE-degradation products, including vinyl chloride, is possible. (Vinyl chloride is a regulated PCE-degradation product that can be relatively persistent under some conditions.) The use of soluble sodium lactate as an amendment appears to result in the greatest immediate stimulation of the microbial population. However, the emulsified oil has the potential to provide a longer-term, and therefore potentially more cost-effective, source of carbon if the pH is maintained close to neutral.

5.0 PILOT STUDY FIELD ACTIVITIES

Based on the results of the bench-scale testing, ERM conducted a pilot-scale treatability study of enhanced anaerobic biological remediation as an on-site application. This section summarizes the field activities and results of the in-situ biological remediation pilot study conducted at the site.

The pilot study included the installation of two new monitoring wells to monitor remedial progress, performance of baseline ground water quality monitoring, injection of the amendment material, and performance of progress monitoring of ground water quality.

5.1 MONITORING WELL INSTALLATION

5.1.1 *Subsurface Utility Clearance*

Subsurface utilities at the proposed well locations were located using the public utility notification system and by a private utility locator, Applied Professional Services Inc., of North Bend, Washington. Additionally, available as-built diagrams of the facility were reviewed, and the boring locations were physically cleared by hand digging to approximately 4 feet bgs prior to the commencement of drilling.

5.1.2 *Monitoring Well Installation*

Two ground water monitoring wells (MW-10 and MW-11) were installed on 20 November 2006 at locations shown on Figure 2. The wells were installed using a hollow stem auger drilling rig operated by Cascade Drilling Inc. of Woodinville, Washington, a Washington-licensed well driller. Well construction details for the site ground water monitoring wells are summarized in Table 4 and boring logs for MW-10 and MW-11 are provided in Appendix F.

Monitoring wells MW-10 and MW-11 were installed to 20 feet bgs. Soil samples were collected at 5 foot intervals to a depth of 10 feet bgs and at 2.5-foot intervals from 10 feet bgs to 20 feet bgs. The soil samples were screened with a photo-ionization detector (PID) for volatile organic vapors and screened continuously for changes in lithology. Soils from each well boring were logged using the USCS Soil Classification guidelines.

The wells were constructed of 2-inch diameter, threaded, flush-joint, Schedule 40 polyvinyl chloride (PVC) casing with 10 feet of 0.010-inch machine slotted PVC screen. The screened interval was positioned to extend below the water table from approximately 10 feet bgs to 20 feet bgs. The annular space between the well screen and the borehole wall was backfilled with clean 10/20 silica sand to 1 to 2 feet above the top of the well screen. The sand pack was consolidated by the driller by surging the well for 15 minutes with a surge block. The sand was then topped up to 1 to 2 feet above the top of the screen. The wells were sealed from the top of the sand pack to approximately 2 feet bgs with 3/8 inch sized bentonite chips. The chips were hydrated every 2 feet of elevation with potable water. The wells were completed by cementing in flush-with-grade monuments. A lockable compression cap was installed on each well head.

5.2 *BASELINE AND PERFORMANCE GROUND WATER MONITORING*

A baseline ground water monitoring event was conducted on 21 November 2006 and performance ground water monitoring events were conducted on 17 January 2007, 19 March 2007, and 18 May 2007. The baseline ground water monitoring event included the development of wells MW-10 and MW-11. Ground water samples were collected from wells MW-4, MW-10, and MW-11 during the baseline and the three performance monitoring events. The baseline monitoring event was conducted to establish baseline concentrations of chlorinated VOCs (CVOCs) and natural attenuation parameters prior to the pilot study. The performance monitoring events were conducted to evaluate the efficacy of the enhanced anaerobic biological remediation.

5.2.1 *Well Development*

Wells MW-10 and MW-11 were developed by first surging the screened section with a polyethylene bailer and then by purging ground water from the wells using a submersible pump. The well development consisted of repeated well surging and purging until water clarity stabilized with turbidity readings below 100 nephelometric turbidity units.

5.2.2 *Potentiometric Surface Measurement*

Ground water elevation measurements were collected from site-wide monitoring wells prior to each of the three performance monitoring events. Measurements were collected using an electronic water level

indicator capable of measurement to the nearest 0.01 foot. When pressure was noted on the well cap when the well was opened or when changing ground water elevation was noted, the well was left open and the measurement was not collected until the ground water elevation had stabilized.

5.2.3 *Sample Collection*

Ground water samples were collected from the wells using a submersible, impeller-style pump with variable speed controller. The pump speed was adjusted to produce a target purge rate of approximately 0.5 gallon per minute of discharge. Ground water quality field parameters were measured at the pump discharge using a flow-through water quality meter. The ground water was purged from each well until at least three well casing volumes of water had been removed, and select ground water field parameters (temperature, pH, and specific conductance) had stabilized. The dissolved oxygen, reduction-oxidation (redox) potential, and turbidity of the ground water were also measured throughout the purge.

The ground water samples were labeled and stored in an iced cooler after collection. Samples were handled following chain-of-custody procedure and delivered to Test America, Inc. in Bothell, Washington, for analysis. The samples were analyzed for:

- CVOCs by USEPA Method 8260b;
- Dissolved iron and manganese by USEPA Method 6010b;
- Nitrite and sulfate by USEPA Method 300.0;
- Total organic carbon (TOC) by USEPA Method 415.1; and
- Methane, ethane, and ethene by Method RSK-175.

5.3 *PILOT STUDY INJECTIONS*

The pilot study injections were performed on 14 and 15 December 2006 at 5 direct-push injection points. Approximately 5,000 gallons of a sodium lactate, emulsified oil, and potassium bicarbonate solution were injected into the study area. Each of the five injection points received approximately 1,000 gallons of approximately 1.25 percent soybean oil

emulsified to approximately 1 micrometer droplet size, and approximately 0.5 percent sodium lactate. The mixture also included approximately 0.1 percent potassium bicarbonate to increase the pH of ground water in the area. The pH adjustment was included to counter the pH-lowering effect of the soybean oil degradation. The injection point locations are shown on Figure 4 and the actual injection volumes are summarized in Table 5.

The injected solution was mixed in small batches prior to injection. For each batch of injected material, approximately 112 pounds of emulsified oil product, 33 pounds of concentrated sodium lactate product, and 5 pounds of potassium bicarbonate was diluted with approximately 500 gallons of water and mixed thoroughly. Following mixing, an injection borehole was installed by advancing the direct-push probe down to the target injection depth. The target injection depth for the treatment compounds was designed to be the screened interval of the nearby wells (roughly 10 to 20 feet); however, the injections were actually performed over a depth interval of 10 to 17 feet bgs. The depth of each injection point was limited by drill rod refusal at depths ranging from 16 to 17 feet bgs. Once the drill rod had been driven to the depth of refusal, the push rod was retracted to release the tip at the end of the rod and the solution was pumped into the subsurface.

Several of the locations, including IP-2, IP-4, and IP-5, required several attempts to install an injection point that could deliver the treatment solution to the subsurface at a measurable rate. Problems encountered at the boring locations included: no measurable flow, refusal at shallow depths (12 feet bgs), and damage to the drilling tools including bent probe rods and seized injection points, and inability to maintain a seal around the injection point or at previously abandoned injection points nearby. At one injection point, IP-1, the injection solution followed a preferential pathway to the surface through well MW-4 after an approximate injection volume of 750 gallons. Well MW-4 is approximately 20 feet south of IP-1.

The injection rates achieved during the pilot study ranged from approximately 3 to 12 gallons per minute at a pressure of approximately 20 to 40 pounds per square inch. The totalizing flow meters used to monitor the injection flow rate at each location were designed and calibrated for water. The higher viscosity and lower density of this injection fluid resulted in imprecise measurement of the total volume and flow rate, but provides a gauge for the approximate rate of injection. The actual injection volumes for each point were measured in the field based

upon the number of 500 gallon batches of solution injected at each location.

Following completion of each injection point, the borehole was backfilled with bentonite grout and the surface was repaired with cold patch asphalt.

5.5 *INVESTIGATION-DERIVED WASTE MANAGEMENT*

Well development water, equipment decontamination water, and soil cuttings were contained in labeled, steel, 55-gallon drums approved by the Department of Transportation. The contents of the drums were characterized as F002-list dangerous waste and were removed from site by Emerald Services of Seattle, Washington.

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6.0 PILOT STUDY RESULTS AND DISCUSSION

This section summarizes the results of the performance ground water monitoring and discusses the results of the pilot study.

6.1 FIELD MEASUREMENTS

6.1.1 Ground Water Surface Elevation

Depth to ground water measurements and calculated ground water elevations are summarized in Table 6. A ground water potentiometric surface map for the January 2007 event is included as Figure 5. This event has the most complete ground water level data set and is generally representative of the trends in ground water flow at the site in winter and spring.

Generally ground water flow was consistent with past observations. Ground water flow in January 2007 was toward the south and southwest at an average gradient of approximately 0.013.

6.1.2 Field Water Quality Parameters

Final field water quality parameters measured during each sampling event are included in Table 7. Field water quality parameters were reviewed to monitor for changes in site ground water chemistry resulting from the pilot study. Water quality effects expected during this pilot study were as follows:

- An increase in pH from the naturally-occurring slightly acidic conditions (generally less than 6.0) to neutral or slightly basic conditions (greater than 7.0).
- A decrease in dissolved oxygen as the significantly increased availability of the carbon source causes the available oxygen to be consumed resulting in generally anaerobic conditions (target less than 0.5 mg/l).
- A decrease in the ORP measurement from a generally oxidizing background environment (greater than 50 mV) to a generally reducing environment (less than -100 mV).

All three of these changes were observed in the ground water quality measurements collected from well MW-4 during the pilot study. The pH changed slightly with an increase from 5.9 to above 6.0, the dissolved oxygen dropped to as low as 0.26 mg/l and the ORP decreased from 173 mV to a minimum of -148 mV. All of these conditions are within the standard ranges of effectiveness for anaerobic biodegradation (USEPA 1998). Data from the remaining wells are inconclusive in regard to direct water chemistry effects related to the pilot study injections.

The data suggest that the changes in the ground water chemistry that resulted from this pilot study were limited to the areas within a 20 to 25 foot radius of the injections points and did not extend the approximately 40 feet downgradient to well MW-11. The pilot test results confirm that this aquifer can be converted to an anaerobic and reducing environment within the radius of influence of the injection. These results also suggest that insufficient mass of pH-buffering material was injected because a significant increase in pH was not observed at MW-4. Based on the contaminant distribution effects discussed in the next section, this may not have had a significant effect on the overall effectiveness of the pilot study injections on reducing VOC concentrations in site ground water.

6.2 *LABORATORY ANALYTICAL RESULTS*

This section summarizes the results of the ground water samples collected for laboratory analytical analysis. The results of analysis for natural attenuation indicators in ground water are summarized in Table 8 and the results of VOC analysis are summarized in Table 2. The VOC distribution in ground water after the final performance monitoring event in May 2007 is shown on Figure 6.

6.2.1 *Biological Degradation Indicator Parameters*

The biological degradation indicator parameters collected during the pilot study include TOC, dissolved iron and manganese, nitrite, sulfate, methane, ethane, and ethene. TOC is a measure of the available carbon for biological growth and metabolism of CVOCs. A TOC concentration of greater than 20 mg/l is targeted for anaerobic degradation of CVOCs (USEPA 1998). Notable increases in TOC were noted at MW-4 with all three performance monitoring events showing TOC greater than 20 mg/l and a maximum measurement of 102 mg/l (March 2007). The trends in the TOC data suggest that the injectate was likely to be largely spent after approximately 6 months. Slight increases in TOC were observed at well

MW-10 and MW-11 though the concentrations were significantly less than 20 mg/l.

Elevated iron and manganese were observed at MW-4, but not at MW-10 and MW-11. The trends in the dissolved iron and manganese concentrations show that sufficient naturally occurring iron and manganese are present in an oxidized state. As the geochemistry in the aquifer is altered to a reducing state, these elements can be liberated for use in reductive dechlorination. Based on the pilot study results, it is not likely that additional iron will be needed to implement this technology as a full-scale application.

Observed concentrations of nitrite and sulfate showed low concentrations in all wells indicating a low level of competition with the CVOCs for the available resources for anaerobic biological degradation. There were no detections of methane, ethane, and ethene in wells MW-4, MW-10, and MW-11 during the pilot study. The lack of observed dissolved methane, ethane, and ethene is inconclusive with regard to biodegradation performance when compared to the observed VOC degradation conditions.

6.2.2 *Chlorinated Volatile Organic Compounds (CVOCs)*

The concentrations of PCE and its degradation product VOCs at wells MW-4, MW-10, and MW-11 each decreased significantly between the baseline monitoring event in November 2006 and the third (final) performance monitoring event in May 2007. Based on the total decrease in measured molar quantity of the dissolved CVOCs over the 5 months of performance monitoring, the total reduction in CVOCs observed during the pilot study were 74 percent, 71 percent, and 55 percent at wells MW-4, MW-10, and MW-11, respectively. The corresponding reductions in molar quantities of PCE were 99 percent, 74 percent, and 74 percent, respectively. Trend plots showing CVOC concentrations at each of the wells are included as Figures 7 through 9.

Using the data from upgradient well MW-10 as a control for the pilot study, it appears that the reduction in CVOC concentrations observed during the performance monitoring events are attributable to effects from both the source area soil removal and the pilot study. Concentrations of PCE at well MW-10 decreased from 1,460 µg/l to 380 µg/l with no significant change in the concentrations of the PCE-degradation products TCE, cis-1,2-DCE, and vinyl chloride in the same period. The data for this well indicate a reduction of the influx of PCE migrating from upgradient

of the well, rather than the conversion of PCE to daughter product compounds. The available data indicate that the removal the PCE-laden soils likely had an immediate effect in reducing the migration of PCE from soil to ground water in the vicinity of the excavation.

The analytical results from wells MW-4 and MW-11 both show evidence of beneficial effects of the pilot study injections. An overall reduction in the concentration of PCE of 99 percent from 1,190 µg/l in November 2006 to 15.4 µg/l in May 2007 was observed at well MW-4, and a reduction of PCE concentration of 74 percent from 1,010 µg/l to 266 µg/l was observed over the same time period at well MW-11. Increases in concentrations of the PCE daughter products TCE, cis-1,2-DCE, and vinyl chloride were also observed at both wells during the pilot study.

The data indicate that two primary factors may have contributed to the decrease of PCE and related CVOC concentrations at the site during the pilot test: degradation due to bioaugmentation and a decrease in contaminant flux to ground water related to soil remediation completed in August 2006. The 74% decrease in PCE concentrations observed at well MW-10 is likely attributable to the decrease in PCE mass in the source area, as that well is upgradient of the pilot study treatment area. The ground water quality at the well (e.g., TOC and stable concentrations of PCE daughter products) did not indicate effects from materials injected during the pilot study.

Although the PCE concentration decrease observed at MW-10 may indicate that some PCE concentration decreases in wells MW-4 and MW-11 may be related to source area soil removal, significant evidence is available that supports PCE degradation at those wells related to pilot test injections. PCE concentrations were reduced by 99 percent at well MW-4 and by 74 percent at well MW-11. These wells are 75 feet and 100 feet, respectively, from the limits of the remedial excavation, while well MW-10 is only 5 feet from the remedial excavation limits. Based on expected ground water flow velocities at the site (approximately 40 to 100 feet per year), it is unlikely that PCE concentrations at wells MW-4 and MW-11 were significantly affected by source area removal during the pilot test.

At wells MW-4 and MW-11, changes to molar ratios of PCE to total CVOCs through the pilot test period indicate that a minimum of 19 to 25 percent of PCE concentration decreases at those wells is directly attributable to biodegradation. These values are biased low because the amount of PCE that completely degrades past vinyl chloride is not

captured in the calculation. Such robust degradation at the site was predicted by the results of the bench-scale study.

The presence of vinyl chloride at wells MW-4 and MW-11 observed during the pilot test indicate that PCE degradation is occurring, but may cause concern that vinyl chloride may accumulate as a result of bioremediation efforts. ERM does not expect vinyl chloride accumulation to be a critical factor in the remediation of the site because:

- Vinyl chloride was observed to be generated during the bench-scale study, but then completely degraded over the full-duration treatment period tested (the pilot study was not full-duration);
- A much smaller molar quantity of vinyl chloride was observed in comparison to the amounts of PCE, TCE, and DCE that were apparently degrading during the pilot study, indicating that although vinyl chloride was being produced by biodegradation, it, too, was being degraded as it was being created; and
- Baseline aquifer conditions (e.g., slightly oxidizing) are amenable to natural degradation of vinyl chloride, indicating that any vinyl chloride left over after full-scale remedial efforts will degrade once the bioaugmentation materials are consumed and the aquifer reverts to baseline conditions.

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7.0 CONCLUSIONS AND RECOMMENDATIONS

The results of soil sampling completed as part of the source area soil removal effort indicate that the remaining PCE concentrations in soil are compliant with MTCA Method B soil cleanup standards. Compliance with MTCA also requires a demonstration that residual soil concentrations will not result in contamination of ground water to concentrations greater than applicable ground water cleanup levels. It is ERM's opinion that ground water remediation activities can effectively reduce VOC concentrations in ground water to allow an empirical demonstration that residual VOC concentrations remaining in soil will not result in unacceptable degradation of ground water quality.

The results of the pilot study shows that enhanced anaerobic biological degradation of the CVOC plume at the site can be successfully implemented using a combination of sodium lactate, emulsified soybean oil, and potassium bicarbonate. The data suggest that the tested dosage was sufficient for approximately 6 months of CVOC degradation.

Trends in PCE concentrations in ground water between January and May 2007 at MW-10 indicate that PCE concentrations in ground water remain greater than the MTCA Method A ground water cleanup value of 5 µg/l. This suggests that the soil removal effort alone will not likely be sufficient to reduce concentrations of PCE in ground water in this area to less than applicable regulatory standards.

Based on the effectiveness of the degradation or PCE and related VOCs during the pilot study, and the corroborating data from the bench-scale testing, ERM recommends the implementation of a full scale application of enhanced anaerobic biodegradation for remediation of VOC-impacted ground water at this site. In the event that enhanced anaerobic biodegradation is not fully successful, the bench-scale study data indicate that in situ chemical oxidation using potassium permanganate is also a feasible remedial alternative for the site.

8.0 REFERENCES

ERM-West, Inc. 2005. *Supplemental Site Investigation Report, Snohomish Square.* 10 June 2005.

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Golder Associates Inc. (Golder). 2003. *Preliminary Subsurface Investigation, Snohomish Square Laundry and Cleaners, 1419 Avenue D, Snohomish, Washington* 2003.

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USEPA. 1998. *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater.* Office of Research and Development, EAP/600R-98/128. September 1998.

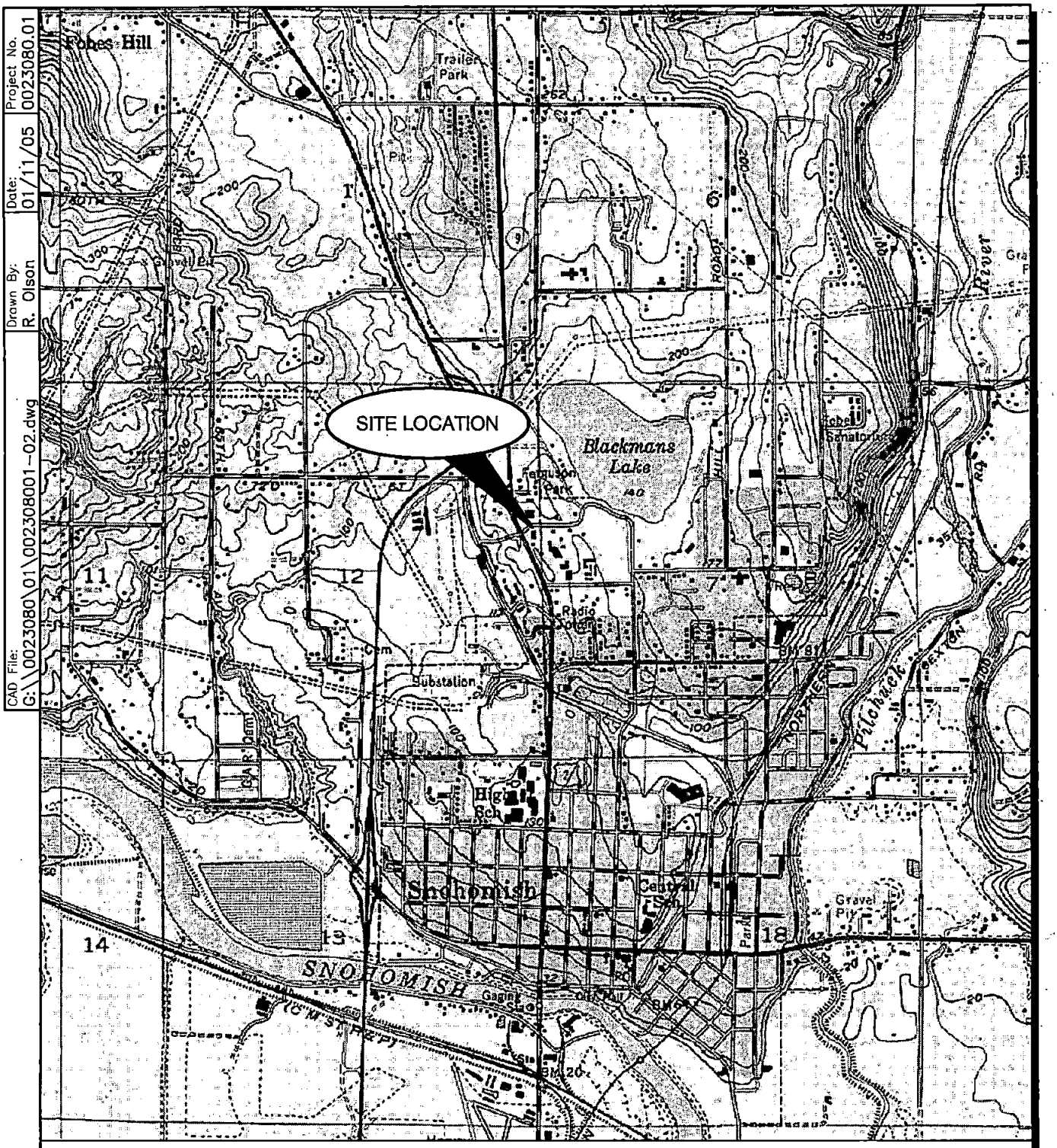

Figure 1

Site Location Map

Snohomish Square Cleaners Facility

Snohomish, Washington

ERM *01/05*

References:
TOPO!® © 2002 National Geographic

'not to my knowledge'.

Project No. 0038613.0001
Date: 11/08/05
Drawn By: R. Olson
CAD File: G:\0038613\01\0038613011-01.dwg

Depth	PCE	cis-1,2-DCE
6.5-7.0	0.021	ND

ND

Manhole

Another catch basin

Depth	PCE	cis-1,2-DCE
2.5	2.40	ND

Depth	PCE	cis-1,2-DCE
4.5	0.170	0.012

Depth	PCE	cis-1,2-DCE
4.5-5.0	ND	ND

Depth	PCE	cis-1,2-DCE
4.5	ND	ND

MW-9

B-1

B-2

B-6

B-3

SNSB-2*

MW-3

ALLEGED POINT OF SOLVENT RELEASE

B-7

BLDG 1

BLDG 2

FERGUSON PARK ROAD

MW-5

Depth	PCE	cis-1,2-DCE
5.0-5.5	0.0074	ND
10-10.5	0.021	ND

DRY CLEANER

HOUSE

Depth	PCE	cis-1,2-DCE
5.0-5.5	<0.0013	ND
10-10.5	0.0019	ND

SNSB-1*

MW-4

B-4

HA-1*

MW-2*

GARAGE

Depth	PCE	cis-1,2-DCE
5.0-5.5	0.0037	ND
10-10.5	0.0023	ND

STORM WATER RETENTION SYSTEM

B-8

B-9

B-10

MW-8

Depth	PCE	cis-1,2-DCE
5.0-5.5	ND	ND

Depth	PCE	cis-1,2-DCE
0.5	0.0062	ND
3.0	0.051	ND

Depth	PCE	cis-1,2-DCE
4.75-5.25	ND	ND

BLDG 3

HOUSE

PARKING

Depth	PCE	cis-1,2-DCE
4.5-5.0	ND	ND

MW-1*

Depth	PCE	cis-1,2-DCE
0.8	ND	ND

BLDG 4

PARKING

Depth	PCE	cis-1,2-DCE
5.0-5.5	<0.0013	ND
10-10.5	0.0019	ND

AVENUE D

BANK

MW-7

SCHUCKS

BLDG 5

POST OFFICE

N

0 30 60
FEET

LEGEND

- MONITORING WELL
- SOIL BORING
- STORM DRAIN
- STORM DRAIN LINE
- CONTAMINANT CONCENTRATIONS GREATER THAN PROJECT SCREENING LEVELS

Notes:
*Samples Collected by Golder Associates.
Depths in feet.
Concentrations reported in mg/kg.

SOURCE: SITE PREPARATION-SNOHOMISH SHOPPING CENTER; BUSH, ROED & HITCHINGS, INC., 02/16/1990

Figure 2
Volatile Organic Compounds Detected in Soil
Snohomish Square Cleaners Facility
Snohomish, Washington
ERM 11/05

CAD File:	Drawn By:	Date:	Project No.
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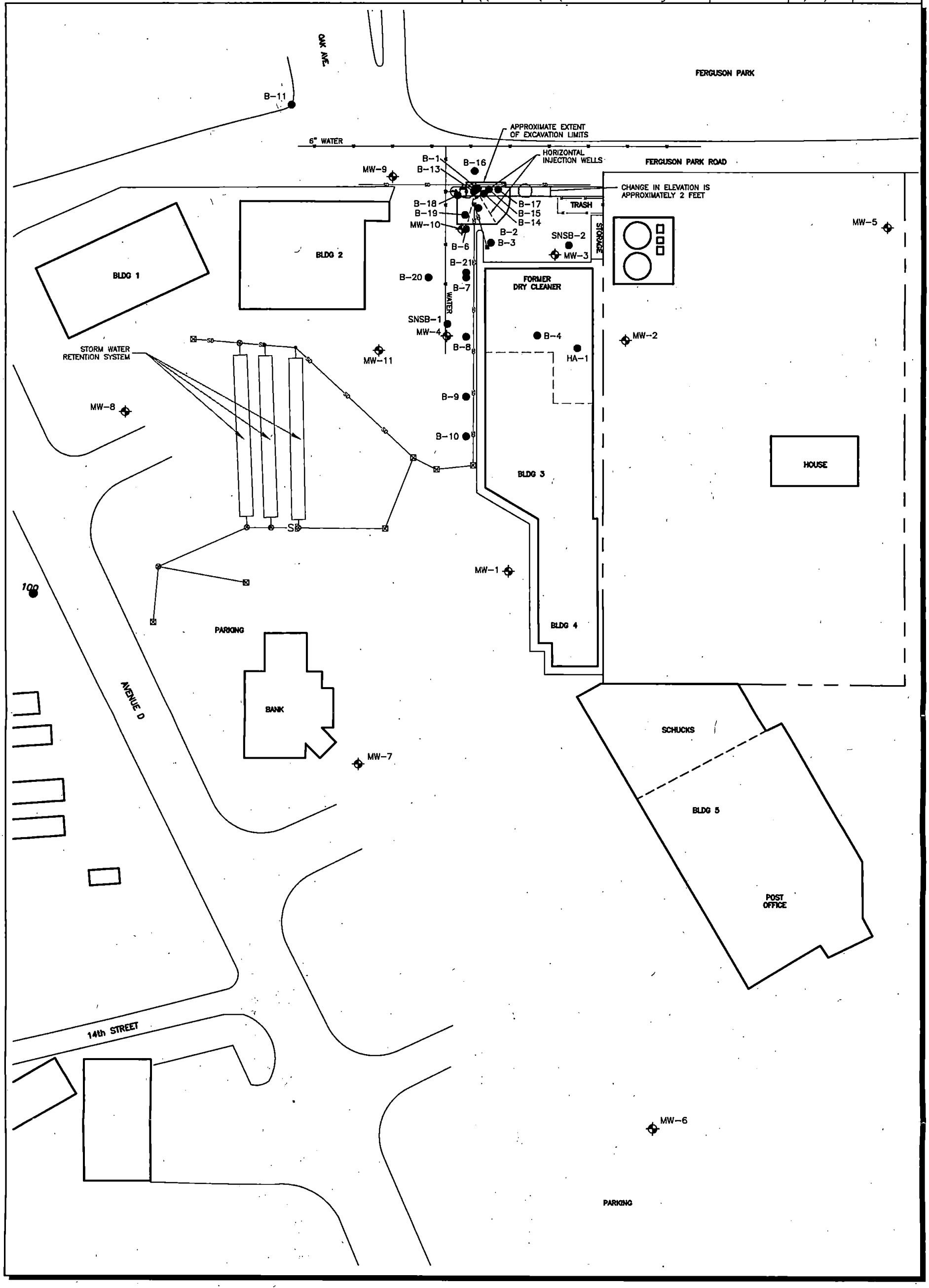
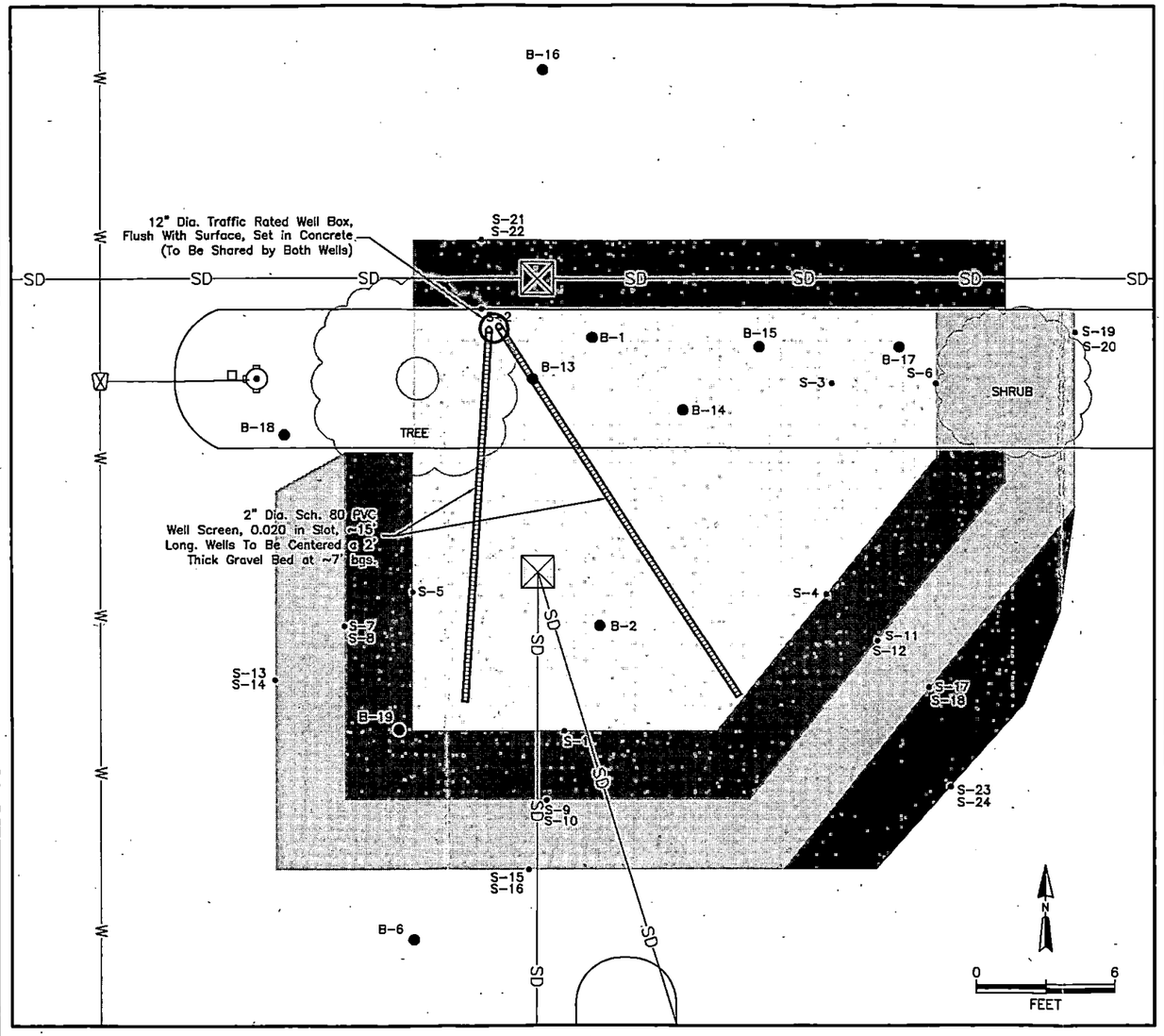


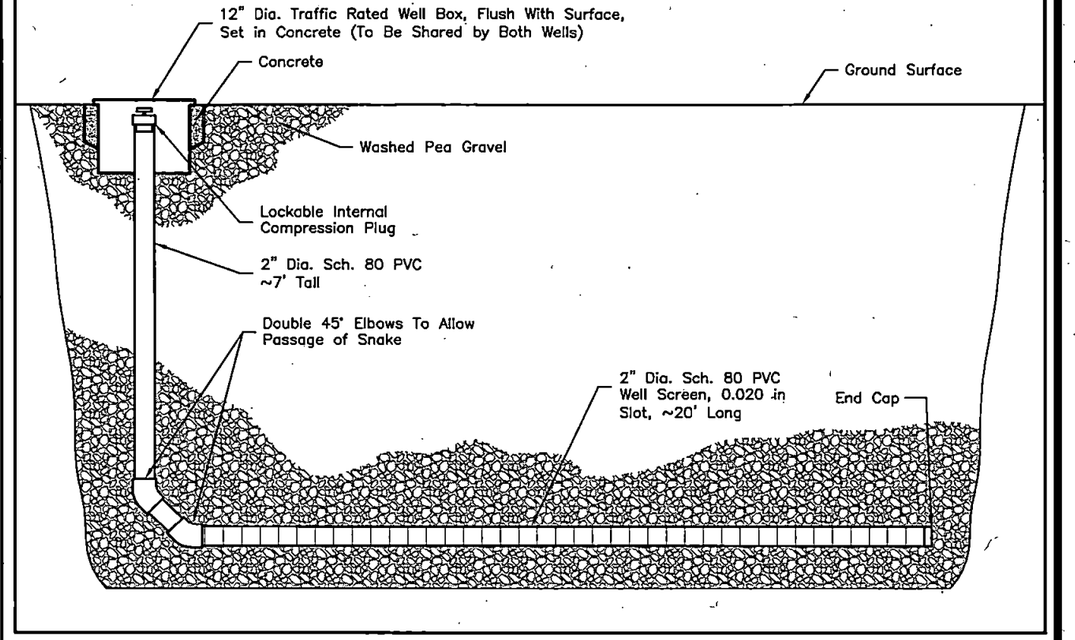
Figure 2
Monitoring Well and Soil Boring Locations
Snohomish Square Cleaners Facility
Snohomish, Washington

ERM 09/07

Project No. 0048167.01
Date: 09/17/07
Drawn By: J. Estrada
CAD File: G:\0048167\01\0048167\01-15.dwg



Plan View



Cross Section Detail A
Not to Scale

LEGEND

- Monitoring Well
- Confirmation Soil Sampling Location
- Soil Boring
- Fire Hydrant
- Water Control Valve
- Storm Drain
- Phase 1 Excavation Limits
- Phase 2 Excavation Limits
- Phase 3 Excavation Limits
- Phase 4 Excavation Limits

Notes:
Utility locations are approximate locations and will be confirmed by a private utility locator.
Actual depth and limits of excavtion will be determined in the field using soil clearance sampling data.

Figure 3
Excavation Area and Confirmation Soil Sample Locations
Snohomish Square Cleaners Facility
Snohomish, Washington
ERM 09/07

CAD File: G:\\003861301\003861301-02.dwg
Drawn By: R. Olson
Date: 11/08/05
Project No. 003861301

700' long
300' wide

0 50 100
FEET

LEGEND

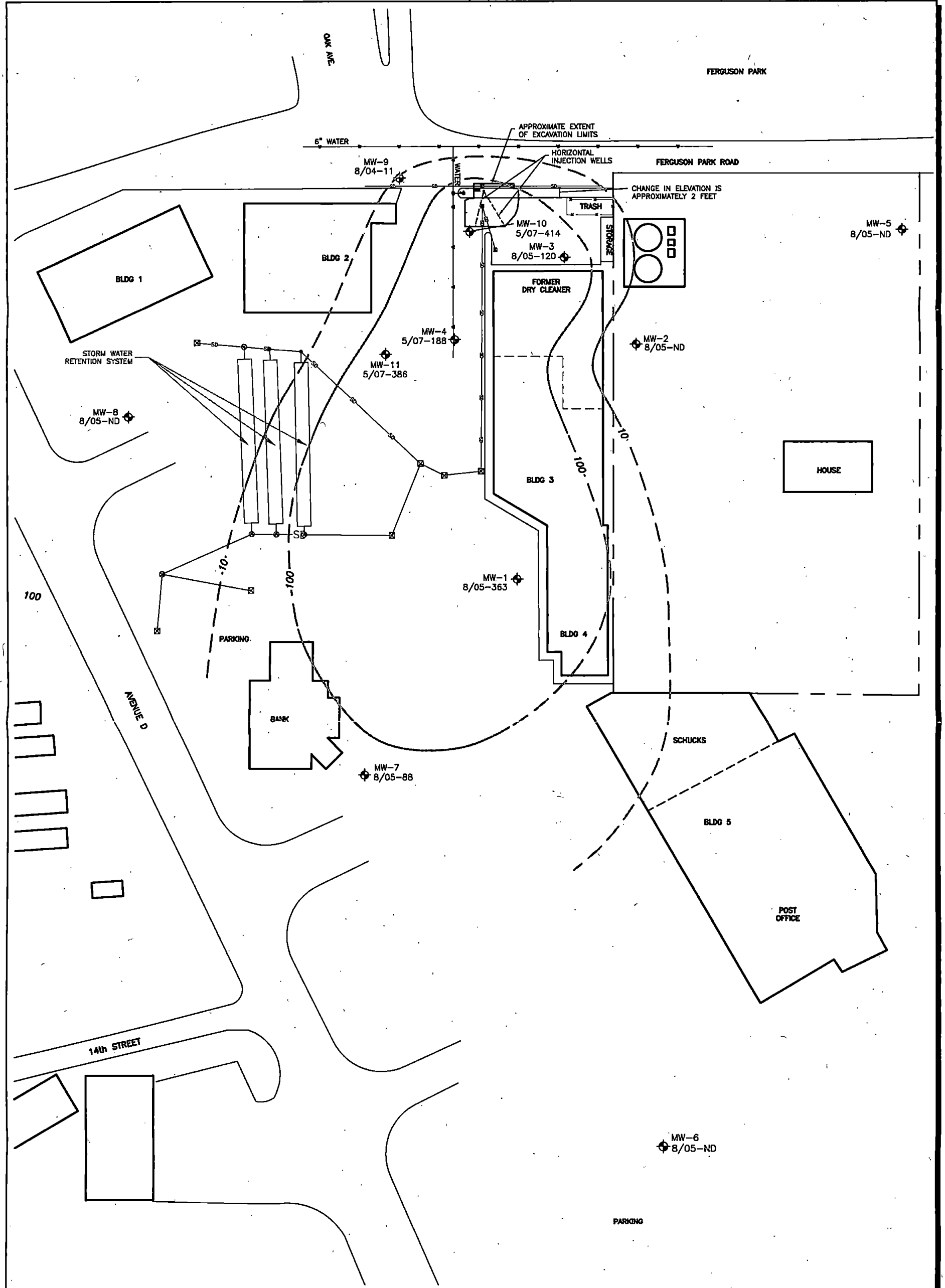
- MONITORING WELL
- SOIL BORING
- CATCH BASIN
- STORM DRAIN MANHOLE
- 100 — INFERRED CONTOUR OF PCE CONCENTRATION (µg/L); DASHED WHERE INFERRED. RED INDICATES PROJECT SCREENING LEVEL CONCENTRATION (5µg/L)
- 200 PCE CONCENTRATION (µg/L) BASED ON 5 MAY 2005 DATA
- STORM DRAIN LINE
- 10,000+ µg/L PCE
- 1,000–10,000 µg/L PCE
- 100–1,000 µg/L PCE
- 10–100 µg/L PCE
- 5(PROJECT SCREENING LEVEL)–10 µg/L PCE

SOURCE: SITE PREPARATION–SNOHOMISH SHOPPING CENTER; BUSH, ROED & HITCHINGS, INC., 02/16/1990

Figure 3
Tetrachloroethene in Ground Water - May 2005
Snohomish Square Cleaners Facility
Snohomish, Washington

ERM 11/05

CAD File:	Drawn By:	Date:	Project No.
G:\\0048167\01\004816701-19.dwg	J. Estrada	09/17/07	0048167.01



LEGEND

⊕	Monitoring Well
8/05-363	Sample Date – Total CVOC Concentration in Groundwater (µg/l)
10	Total CVOC Concentration Contour (µg/l); Dashed Where Inferred
----------	Horizontal Injection Gallery
	CVOC=Chlorinated Volatile Organic Compounds

N

0 60

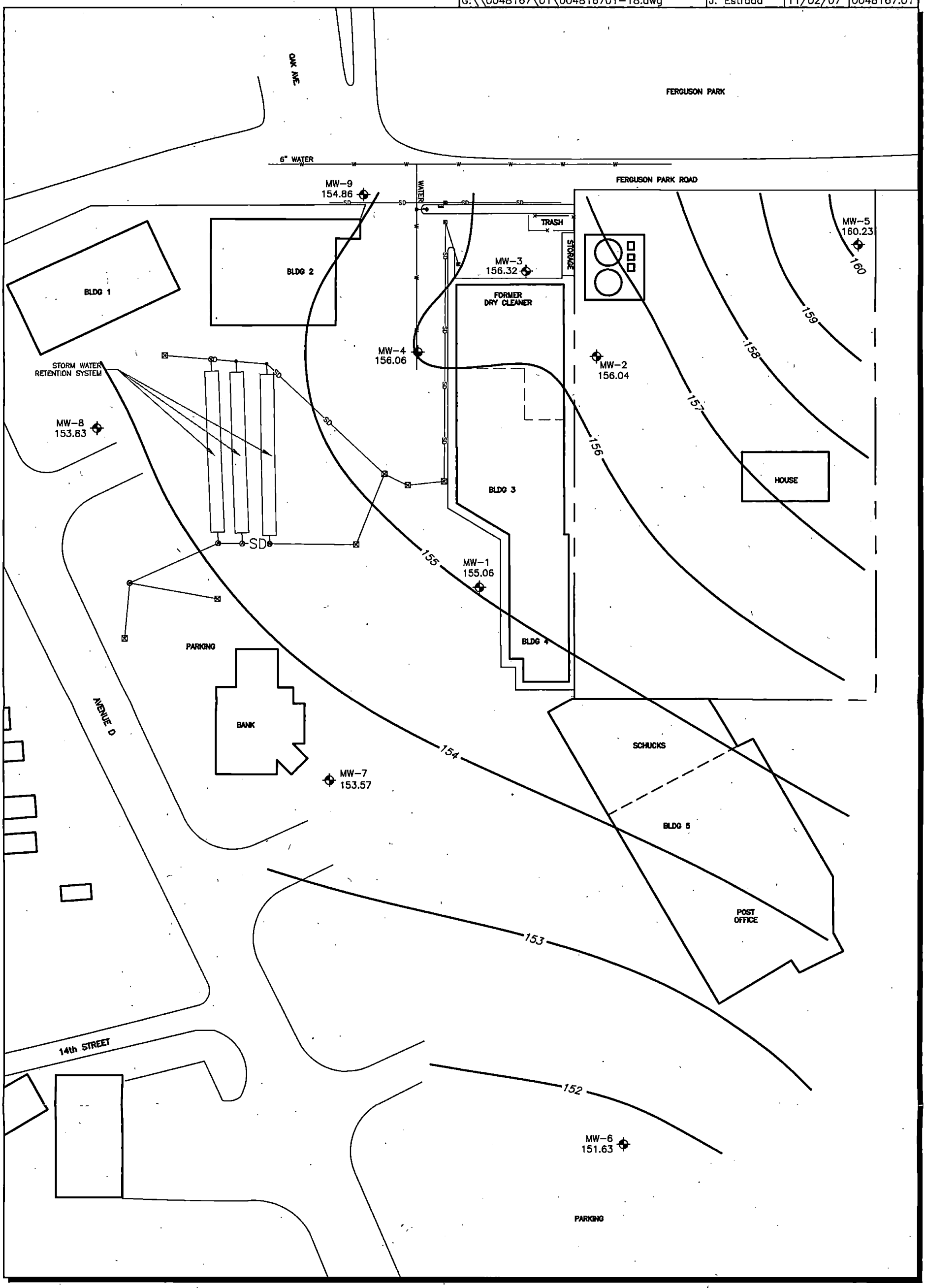
FEET

Figure 6

Total CVOCs in Groundwater
Snohomish Square Cleaners Facility
Snohomish, Washington

ERM 09/07

CAD File:	Drawn By:	Date:	Project No.
G:\\0048167\01\004816701-18.dwg	J. Estrada	11/02/07	0048167.01



LEGEND

- Monitoring Well
- 151.63 Groundwater Elevation (feet amsl)
- *152* Groundwater Elevation Contour (feet amsl)

N

0 60

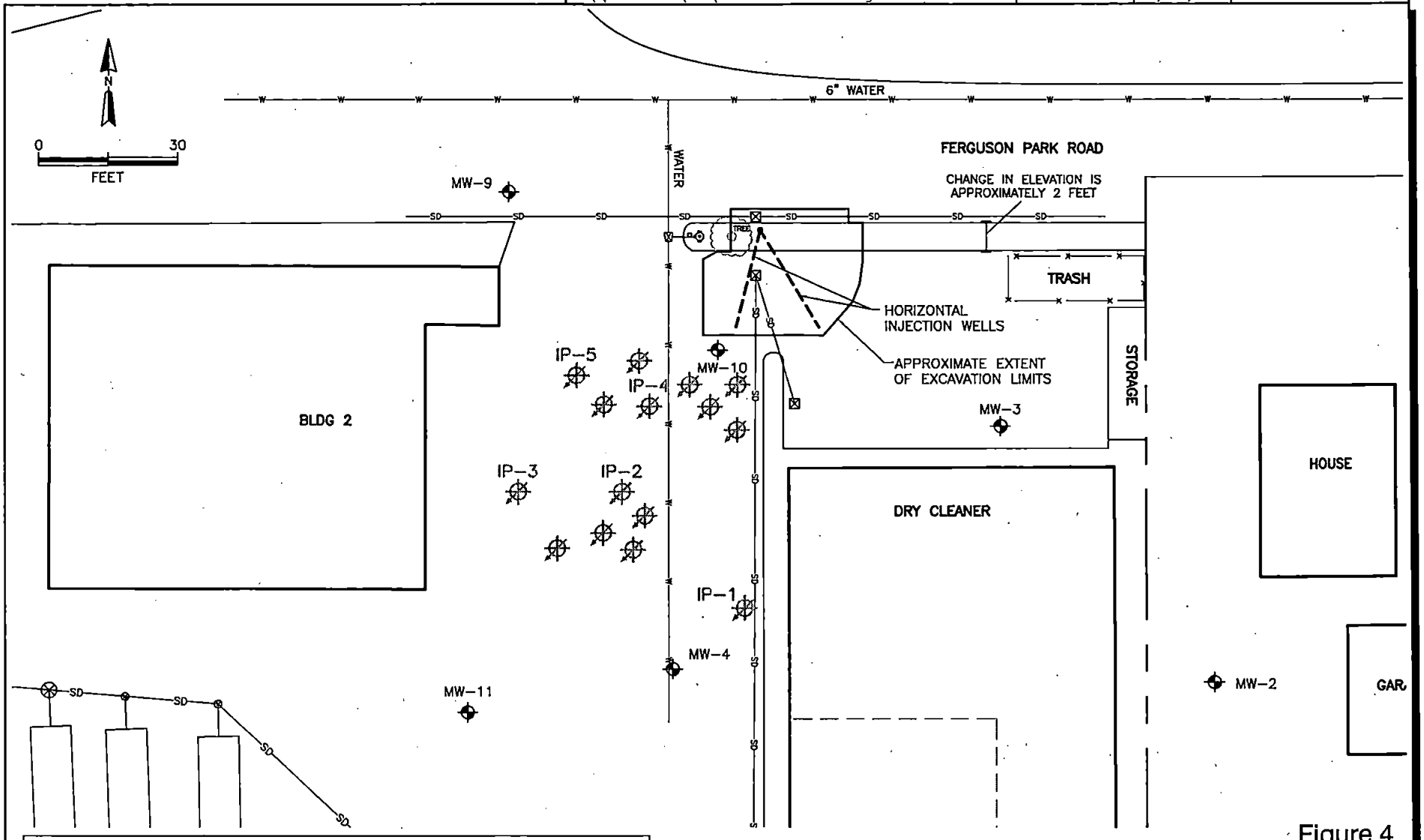
FEET

Figure 5

Potentiometric Surface Map
January 2007
Snohomish Square Cleaners Facility
Snohomish, Washington

ERM *11/07*

CAD File:	Drawn By:	Date:	Project No.
G:\\0048167\01\004816701-13.dwg	J. Estrada	09/17/07	0048167.10



Notes:
Utility locations are approximate locations and will be confirmed by a private utility locator.

Figure 4

Pilot Study Well and Injection Locations
Snohomish Square Cleaners Facility
Snohomish, Washington

ERM 09/07

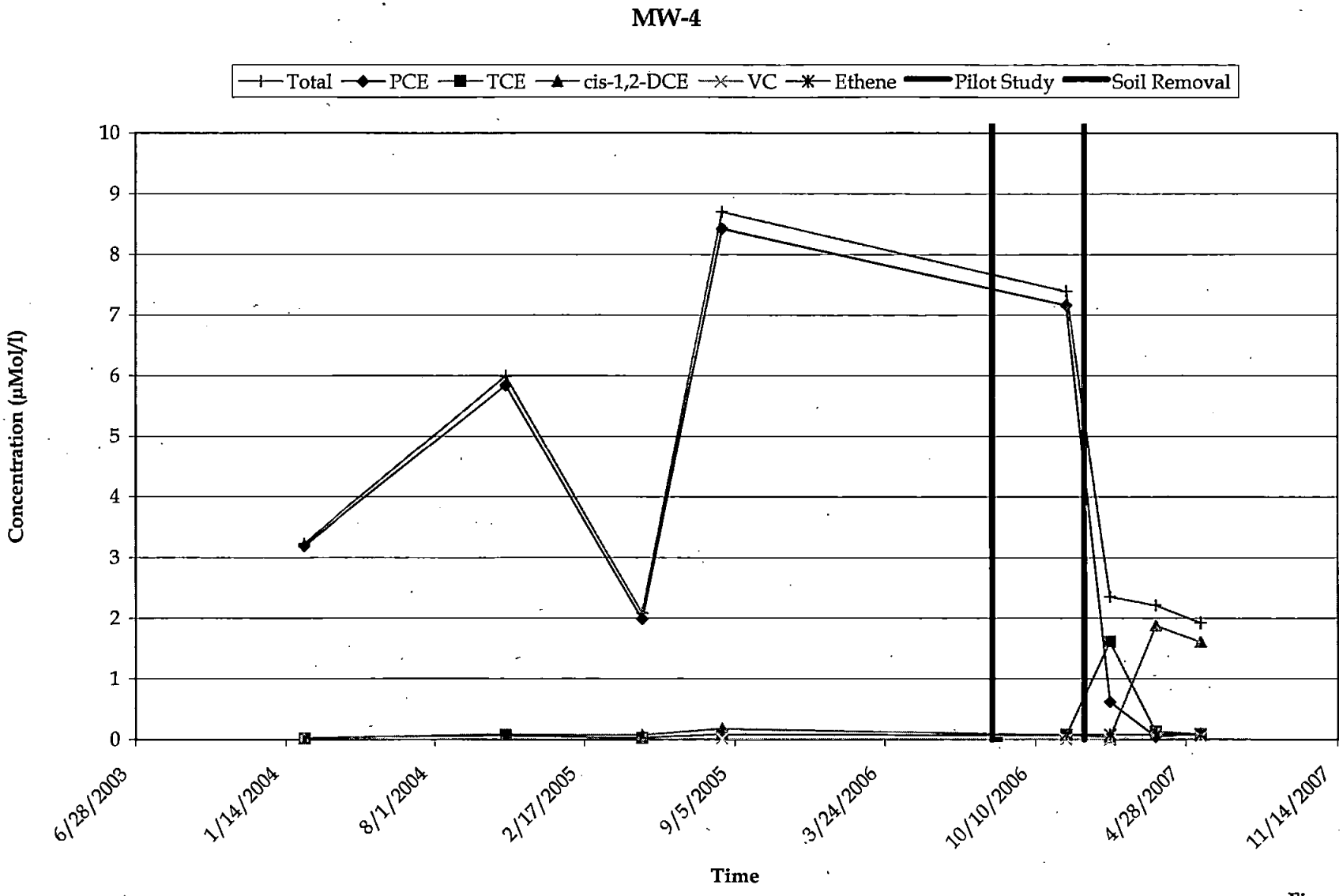


Figure 7
Concentrations of CVOCs and Ethene with Time - MW-4
Snohomish Square Cleaners Facility
Snohomish Washington

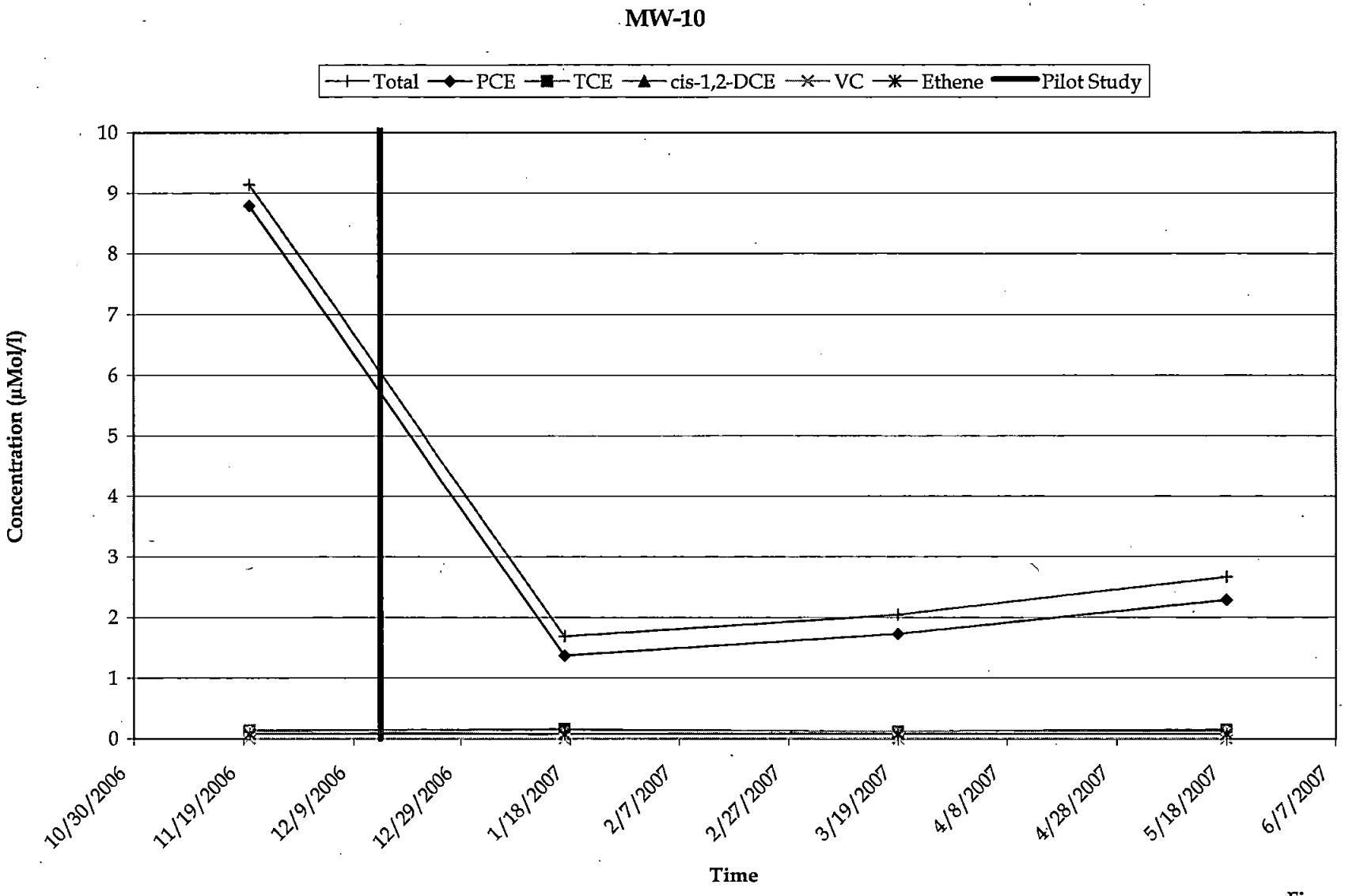


Figure 8
Concentrations of CVOCs and Ethene with Time - MW-10
Snohomish Square Cleaners Facility
Snohomish, Washington

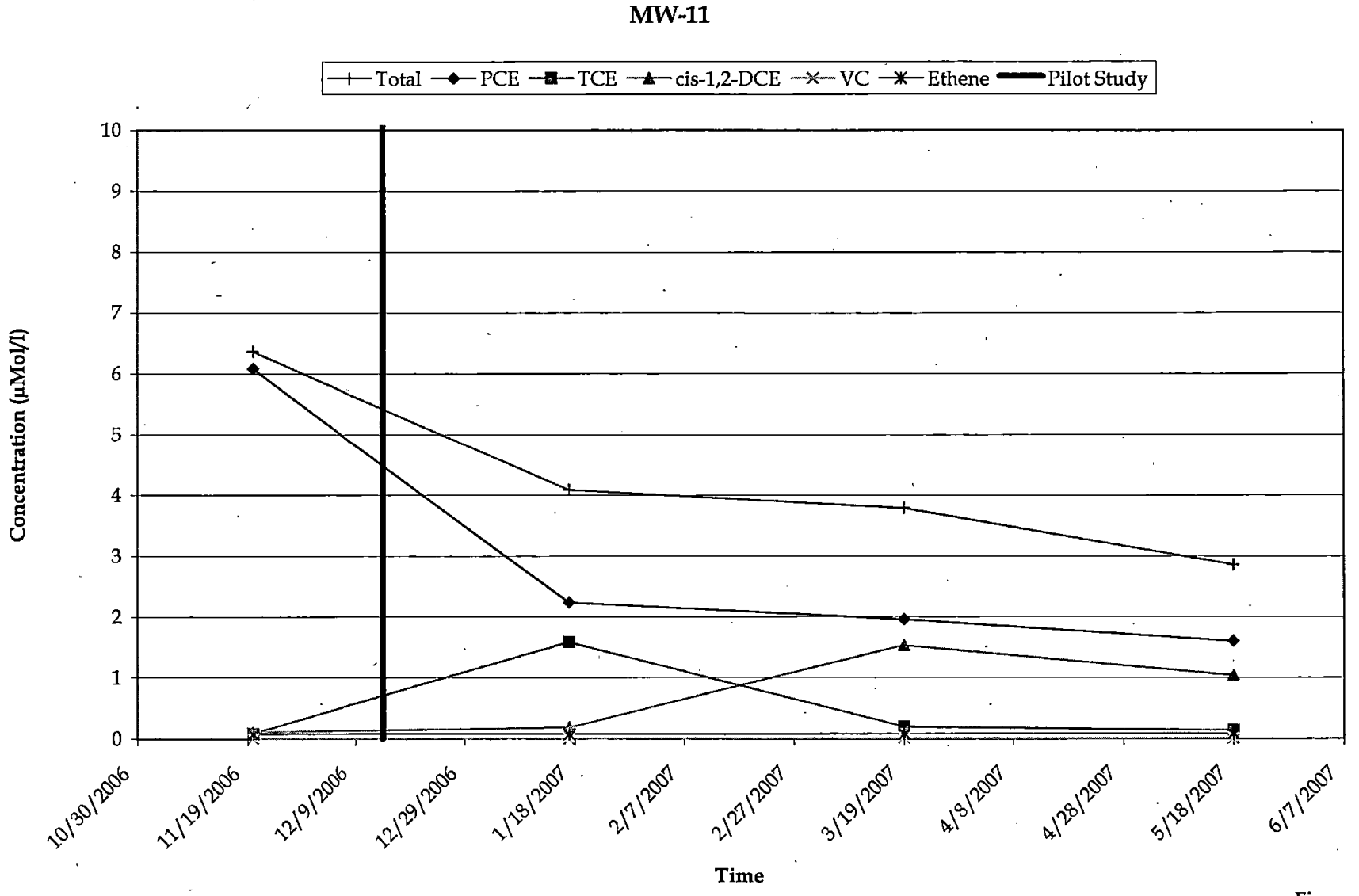


Figure 9
Concentrations of CVOCs and Ethene with Time - MW-11
Snohomish Square Cleaners Facility
Snohomish, Washington

Tables

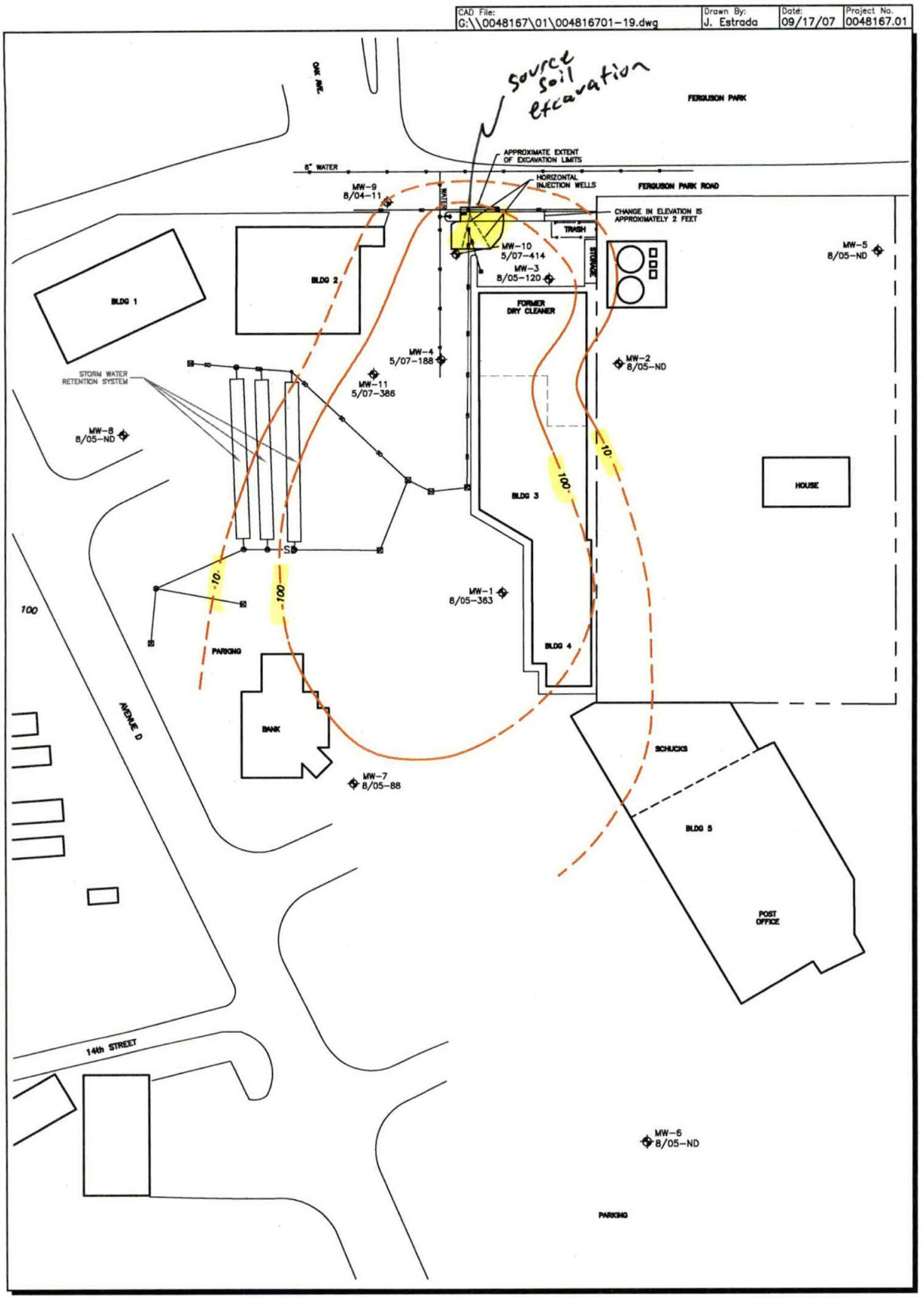
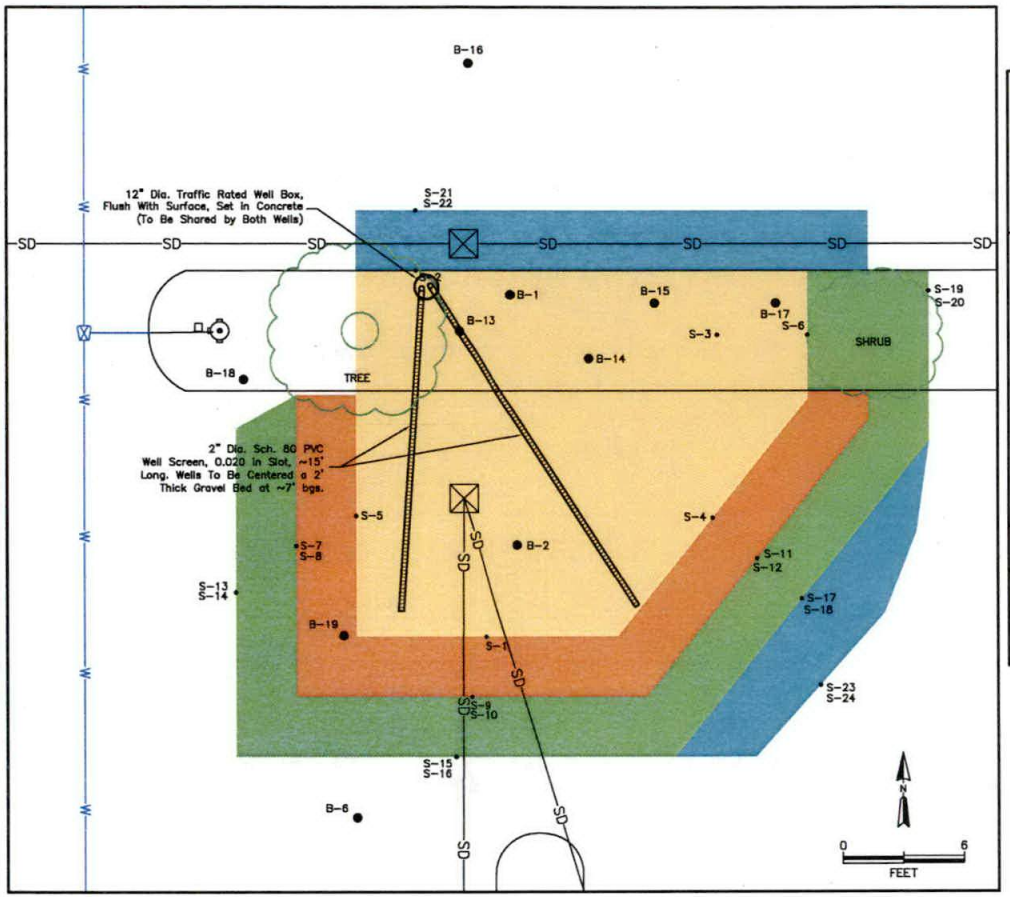
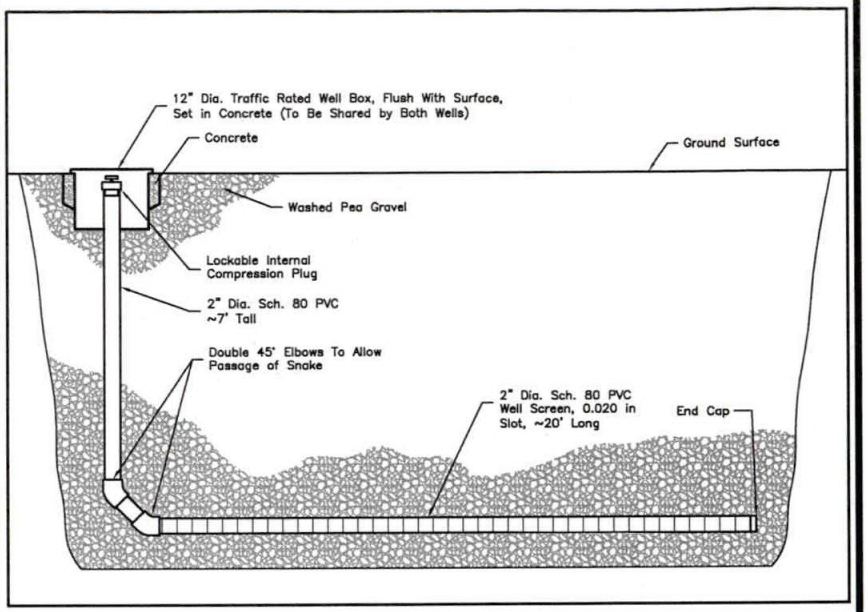


Figure 6
Total CVOCs in Groundwater
Snohomish Square Cleaners Facility
Snohomish, Washington

ERM 09/07



Plan View



Cross Section Detail A

Not to Scale

LEGEND

- Monitoring Well
- Confirmation Soil Sampling Location
- Soil Boring
- Fire Hydrant
- Water Control Valve
- Storm Drain

- Phase 1 Excavation Limits
- Phase 2 Excavation Limits
- Phase 3 Excavation Limits
- Phase 4 Excavation Limits

Notes:
Utility locations are approximate locations and will be confirmed by a private utility locator.
Actual depth and limits of excavtion will be determined in the field using soil clearance sampling data.

CAD File: G:\\0048167\01\0048167O1-15.dwg
Drawn By: J. Estrada
Date: 09/17/07
Project No. 0048167.01

Figure 3

Excavation Area and Confirmation Soil Sample Locations
Snohomish Square Cleaners Facility
Snohomish, Washington

ERM 09/07

Table 2

Summary of Volatile Organic Compounds Detected in Ground Water
Snohomish Square Cleaners Facility
Snohomish, Washington

Sample Location	Collected by	Date	Volatile Organic Compounds					
			PCE µg/l	TCE µg/l	cis-1,2-DCE µg/l	trans-1,2-DCE µg/l	Vinyl Chloride µg/l	Chloroform µg/l
Soil Borings								
SNSB-1	Golder	11/19/2003	**430**	**8.4**	**5.5**	---	---	**5.2**
SNSB-2	Golder	11/19/2003	**480**	<4.0	<4.0	---	---	<4.0
B-5	ERM	10/7/2004	**23**	<2	<2	---	---	<2
B-6	ERM	5/5/2005	**26,000**	**180**	**210**	---	---	<10
B-7	ERM	5/5/2005	**1,300**	**12**	**12**	---	---	<2
B-8	ERM	5/5/2005	**300**	**7**	**9**	---	---	<2
B-9	ERM	5/5/2005	**23**	**15**	**16**	---	---	<2
B-10	ERM	5/5/2005	**7**	3	**10**	---	---	<2
B-11	ERM	11/9/2005	<2	<2	<2	---	---	<2
Monitoring Wells								
MW-1	Golder	2/8/2004	**180**	<1.0	<1.0	---	---	**2**
	ERM	11/4/2004	**810**	**9**	6	---	---	<2
	ERM	5/5/2005	**140**	<2	<2	---	---	<2
	ERM	8/19/2005	**360**	3	<2	---	---	<2
MW-2	Golder	2/8/2004	**0.51**	<0.20	<0.20	---	---	**1.8**
	ERM	11/4/2004	<2	<2	<2	---	---	**2**
	ERM	5/5/2005	<2	<2	<2	---	---	<2
	ERM	8/19/2005	<2	<2	<2	---	---	<2
MW-3	Golder	2/8/2004	**17**	**<0.20**	<0.20	---	---	2.3
	ERM	11/4/2004	**120**	<2	<2	---	---	<2
	ERM	5/5/2005	**44**	<2	<2	---	---	<2
	ERM	8/19/2005	**120**	<2	<2	---	---	<2
MW-4	Golder	2/8/2004	**530**	<4.0	<4.0	---	---	<4.0
	ERM	11/4/2004	**970**	**9**	**8**	---	---	<2
	ERM	5/5/2005	**330**	**3**	**7**	---	---	<2
	ERM	8/19/2005	**1,400**	**11**	**17**	---	---	<2
	ERM	11/20/2006	**1,190**	**9.23**	**7.51**	**0.320**	<0.200	<0.200
	ERM	1/17/2007	**103**	**210**	**4.26**	<0.200	<0.200	0.330
	ERM	3/19/2007	**7.50**	**16.6**	**182**	**1.64**	**5.48**	<1.00
	ERM	5/18/2007	**15.3**	**11.7**	**156**	**1.15**	**3.43**	<0.200
MW-5	ERM	11/4/2004	<2	<2	<2	---	---	<2
	ERM	5/6/2005	<2	<2	<2	---	---	<2
	ERM	8/19/2005	<2	<2	<2	---	---	<2
MW-6	ERM	11/4/2004	<2	<2	<2	---	---	**4**
	ERM	5/5/2005	<2	<2	<2	---	---	<2
	ERM	8/19/2005	<2	<2	<2	---	---	<2
MW-7	ERM	11/4/2004	**68**	<2	<2	---	---	<2
	ERM	5/5/2005	**200**	3	2	---	---	<2
	ERM	8/19/2005	**88**	<2	2	---	---	<2
MW-8	ERM	11/4/2004	<2	<2	<2	---	---	<2
	ERM	5/5/2005	<2	<2	<2	---	---	<2
	ERM	8/19/2005	<2	<2	<2	---	---	<2
MW-9	ERM	11/4/2004	**43**	<2	<2	---	---	<2
	ERM	5/5/2005	**180**	<2	<2	---	---	<2
	ERM	8/19/2005	**11**	<2	<2	---	---	<2
MW-10	ERM	11/20/2006	**1,460**	**17.8**	**12.7**	**0.940**	<0.200	<0.200
	ERM	1/17/2007	**228**	**20.6**	**7.28**	**0.230**	<0.200	<0.200
	ERM	3/19/2007	**287**	**15.5**	**10.6**	<1.00	<0.200	<1.00
	ERM	5/18/2007	**380**	**20.0**	**13.3**	**0.430**	<0.200	<0.200
MW-11	ERM	11/20/2006	**1,010**	**11.5**	**10.6**	**0.630**	<0.200	<0.200
	ERM	1/17/2007	**372**	**207**	**18.0**	**0.880**	<0.200	<0.200
	ERM	3/19/2007	**326**	**26.4**	**149**	**1.25**	**0.780**	<1.00
	ERM	5/18/2007	**266**	**17.7**	**101**	**1.03**	**0.400**	<0.200
Project Screening Goal			5[1]	5[1]	80[2]	160[2]	0.2[1]	7.17[2]

Notes:
Shaded cells indicate concentrations that exceed project screening goals.
Bold value indicates that the constituent was detected.
bgs = below ground surface
µg/l - Micrograms per liter
DCE = Dichloroethene
ERM = ERM-West, Inc.
Golder = Golder Associates, Inc.
PCE = Tetrachloroethene
TCE = Trichlorethene
[1]Model Toxics Control Act Method A Ground Water Cleanup Level (Chapter 173-340-900 Washington Administrative Code)
[2]Model Toxics Control Act Method B Ground Water Cleanup Level (Chapter 173-340-705 Washington Administrative Code)

Table 1

Summary of Volatile Organic Compounds and Total Organic Carbon in Soil
Snohomish Square Cleaners Facility
Snohomish, Washington

Sample Location	Sample ID	Collected by	Date	Depth *feet bgs*	Within Excavation Footprint?	Volatile Organic Compounds			TOC
						PCE *mg/kg*	TCE *mg/kg*	cis-1,2-DCE *mg/kg*	*mg/kg*
SNSB-1	SNSB-1-1	Golder	11/19/2003	5-5.5	No	**0.0037**	ND [1]	<0.0014	—
	SNSB-1-2	Golder	11/19/2003	10-10.5	No	**0.0023**	ND [1]	<0.0013	—
SNSB-2	SNSB-2-1	Golder	11/19/2003	5-5.5	No	**0.0074**	ND [1]	<0.0013	—
	SNSB-2-2	Golder	11/19/2003	10-10.5	No	**0.021**	ND [1]	<0.0012	—
HA-1	SNHA-1	Golder	11/19/2003	0.5	No	**0.0062**	ND [1]	<0.0010	—
	SNHA-2	Golder	11/19/2003	3	No	**0.051**	ND [1]	<0.0012	—
MW-1	MW-1-5	Golder	2/5/2004	5-5.5	No	<0.0013	ND [1]	<0.0013	—
	MW-1-10	Golder	2/5/2004	10-10.5	No	**0.0019**	ND [1]	<0.0012	—
MW-2	MW-2-5	Golder	2/5/2004	5-5.5	No	<0.0013	ND [1]	<0.0013	—
	MW-2-10	Golder	2/5/2004	10-10.5	No	**0.0019**	ND [1]	<0.0012	—
B-1	B-1-2.5	ERM	10/7/2004	2.5	Yes	**2.4**	< 0.010	<0.010	—
B-2	B-2-4.5	ERM	10/7/2004	4.5	Yes	**0.170**	< 0.010	**0.012**	—
B-3	B-3-4.5	ERM	10/7/2004	4.5	No	<0.010	< 0.010	<0.010	—
B-4	B-4-0.8	ERM	10/7/2004	0.8	No	<0.010	< 0.010	<0.010	—
B-6	B-6	ERM	5/5/2005	6.5-7.0	No	**0.021**	< 0.010	<0.010	**720**
B-7	B-7	ERM	5/5/2005	4.5-5.0	No	<0.010	< 0.010	<0.010	—
B-8	B-8	ERM	5/5/2005	5.0-5.5	No	<0.010	< 0.010	<0.010	**6,400**
B-9	B-9	ERM	5/5/2005	4.75-5.25	No	<0.010	< 0.010	<0.010	—
B-10	B-10	ERM	5/5/2005	4.5-5.0	No	<0.010	< 0.010	<0.010	—
B-13	B-13-0.5	ERM	11/23/2005	0.5	Yes	**0.038**	<0.010	<0.010	—
	B-13-3.5	ERM	11/23/2005	3.5	Yes	**4.7**	**0.160**	<0.010	—
B-14	B-14-0.5	ERM	11/23/2005	0.5	Yes	**0.570**	<0.010	<0.010	—
	B-14-4.0	ERM	11/23/2005	4.0	Yes	**0.016**	<0.010	<0.010	—
B-15	B-15-0.5	ERM	11/23/2005	0.5	Yes	**0.034**	<0.010	<0.010	—
	B-15-4.0	ERM	11/23/2005	4.0	Yes	**0.440**	<0.010	<0.010	—
B-16	B-16-3.0	ERM	4/26/2006	3.0	No	<0.010	<0.010	<0.010	—
	B-16-8.0	ERM	4/26/2006	8.0	No	<0.010	<0.010	<0.010	—
B-17	B-17-3.5	ERM	4/26/2006	3.5	Yes	**0.053**	<0.010	<0.010	—
	B-17-8.0	ERM	4/26/2006	8.0	Yes	0.010	<0.010	<0.010	—
B-18	B-18-3.0	ERM	4/26/2006	3.0	No	<0.010	<0.010	<0.010	—
	B-18-8.0	ERM	4/26/2006	8.0	No	**0.043**	<0.010	<0.010	—
B-19	B-19-3.0	ERM	4/26/2006	3.0	Yes	<0.010	<0.010	<0.010	—
	B-19-8.0	ERM	4/26/2006	8.0	Yes	**7.600**	**0.012**	**0.020**	—
S-1	S-1	ERM	11/2/2004	NA	Yes	<0.010	< 0.010	<0.010	—
Storm Drain-1	Storm Drain-1	ERM	4/29/2005	NA	Yes	<0.010	< 0.010	<0.010	—
Project Screening Goal [2]						**0.05**	**0.03**	—	—

Notes:

Shaded cells indicate concentrations that exceed project screening goals.
Bold value indicates that the constituent was detected.
bgs = below ground surface
cis-1,2-DCE = cis-1,2-Dichloroethene
ERM = Sample collected by ERM-West Inc
Golder = Samples collected by Golder Associates Inc
mg/kg = milligram per kilogram
NA = Not applicable
NM = Not measured
PCE = Tetrachoroethene
TCE = Trichloroethene
TOC = Total Organic Carbon
[1]Sample collected by Golder, detection limit not available.
[2]Washington State Department of Ecology Model Toxics Control Act - WAC 173-340-900 Table 745-1

Table 2

Summary of Volatile Organic Compounds Detected in Ground Water
Snohomish Square Cleaners Facility
Snohomish, Washington

Sample Location	Collected by	Date	Volatile Organic Compounds					
			PCE µg/l	TCE µg/l	cis-1,2-DCE µg/l	trans-1,2-DCE µg/l	Vinyl Chloride µg/l	Chloroform µg/l
Soil Borings								
SNSB-1	Golder	11/19/2003	430	8.4	5.5	---	---	5.2
SNSB-2	Golder	11/19/2003	480	<4.0	<4.0	---	---	<4.0
B-5	ERM	10/7/2004	23	<2	<2	---	---	<2
B-6	ERM	5/5/2005	26,000	180	210	---	---	<10
B-7	ERM	5/5/2005	1,300	12	12	---	---	<2
B-8	ERM	5/5/2005	300	7	9	---	---	<2
B-9	ERM	5/5/2005	23	15	16	---	---	<2
B-10	ERM	5/5/2005	7	3	10	---	---	<2
B-11	ERM	11/9/2005	<2	<2	<2	---	---	<2
Monitoring Wells								
MW-1	Golder	2/8/2004	180	<1.0	<1.0	---	---	2
	ERM	11/4/2004	810	9	6	---	---	<2
	ERM	5/5/2005	140	<2	<2	---	---	<2
	ERM	8/19/2005	360	3	<2	---	---	<2
MW-2	Golder	2/8/2004	0.51	<0.20	<0.20	---	---	1.8
	ERM	11/4/2004	<2	<2	<2	---	---	2
	ERM	5/5/2005	<2	<2	<2	---	---	<2
	ERM	8/19/2005	<2	<2	<2	---	---	<2
MW-3	Golder	2/8/2004	17	<0.20	<0.20	---	---	2.3
	ERM	11/4/2004	120	<2	<2	---	---	<2
	ERM	5/5/2005	44	<2	<2	---	---	<2
	ERM	8/19/2005	120	<2	<2	---	---	<2
MW-4	Golder	2/8/2004	530	<4.0	<4.0	---	---	<4.0
	ERM	11/4/2004	970	9	8	---	---	<2
	ERM	5/5/2005	330	3	7	---	---	<2
	ERM	8/19/2005	1,400	11	17	---	---	<2
	ERM	11/20/2006	1,190	9.23	7.51	0.320	<0.200	<0.200
	ERM	1/17/2007	103	210	4.26	<0.200	<0.200	0.330
	ERM	3/19/2007	7.50	16.6	182	1.64	5.48	<1.00
	ERM	5/18/2007	15.3	11.7	156	1.15	3.43	<0.200
MW-5	ERM	11/4/2004	<2	<2	<2	---	---	<2
	ERM	5/6/2005	<2	<2	<2	---	---	<2
	ERM	8/19/2005	<2	<2	<2	---	---	<2
MW-6	ERM	11/4/2004	<2	<2	<2	---	---	4
	ERM	5/5/2005	<2	<2	<2	---	---	<2
	ERM	8/19/2005	<2	<2	<2	---	---	<2
MW-7	ERM	11/4/2004	68	<2	<2	---	---	<2
	ERM	5/5/2005	200	3	2	---	---	<2
	ERM	8/19/2005	88	<2	2	---	---	<2
MW-8	ERM	11/4/2004	<2	<2	<2	---	---	<2
	ERM	5/5/2005	<2	<2	<2	---	---	<2
	ERM	8/19/2005	<2	<2	<2	---	---	<2
MW-9	ERM	11/4/2004	43	<2	<2	---	---	<2
	ERM	5/5/2005	180	<2	<2	---	---	<2
	ERM	8/19/2005	11	<2	<2	---	---	<2
MW-10	ERM	11/20/2006	1,460	17.8	12.7	0.940	<0.200	<0.200
	ERM	1/17/2007	228	20.6	7.28	0.230	<0.200	<0.200
	ERM	3/19/2007	287	15.5	10.6	<1.00	<0.200	<1.00
	ERM	5/18/2007	380	20.0	13.3	0.430	<0.200	<0.200
MW-11	ERM	11/20/2006	1,010	11.5	10.6	0.630	<0.200	<0.200
	ERM	1/17/2007	372	207	18.0	0.880	<0.200	<0.200
	ERM	3/19/2007	326	26.4	149	1.25	0.780	<1.00
	ERM	5/18/2007	266	17.7	101	1.03	0.400	<0.200
Project Screening Goal			5[1]	5[1]	80[2]	160[2]	0.2[1]	7.17[2]

Notes:
Shaded cells indicate concentrations that exceed project screening goals.
Bold value indicates that the constituent was detected.
bgs = below ground surface
µg/l - Micrograms per liter
DCE = Dichloroethene
ERM = ERM-West, Inc.
Golder = Golder Associates, Inc.
PCE = Tetrachloroethene
TCE = Trichlorethene
[1]Model Toxics Control Act Method A Ground Water Cleanup Level (Chapter 173-340-900 Washington Administrative Code)
[2]Model Toxics Control Act Method B Ground Water Cleanup Level (Chapter 173-340-705 Washington Administrative Code)

Table 8

Field Water Quality Parameter Measurements
Snohomish Square Laundry and Cleaners
Snohomish, Washington

Sample Location	Date	Temperature °C	pH	Electrical Conductivity µS/cm	Dissolved Oxygen mg/l	RedOx mV	Turbidity NTU
MW-1	11/4/04	17.10	5.91	164	1.12	69.4	57.1
	8/19/05	17.93	4.97	225	10.95	-1	460
MW-2	11/4/04	14.12	5.91	62	6.92	88.8	1,437
	8/19/05	14.88	5.13	188	14.3	-22	>990
MW-3	11/4/04	15.75	5.98	89	5.76	79	1,452
	8/19/05	17.49	4.80	194	11.8	7	>990
MW-4	11/4/04	16.89	6.15	113	5.18	62.3	338
	8/19/05	16.37	5.12	180	11.51	-5	>990
	11/20/06	16.7	5.92	109	7.18	173	833
	1/17/07	13.52	6.11	149	0.49	-148	112.6
	3/19/07	12.14	6.40	197	0.55	-53	—
	5/18/07	14.12	6.08	357	0.27	-79	—
MW-5	11/4/04	15.96	5.81	254	5.5	69.4	293
	8/19/05	15.27	4.85	521	10.76	-13	10
MW-6	11/4/04	15.46	6.25	680	5.59	72.3	1,044
	8/19/05	16.01	5.06	421	12.2	-20	>990
MW-7	11/4/04	16.62	5.94	880	3.94	67.8	1,464
	8/19/05	18.24	5.28	731	11.21	-26	>990
MW-8	11/4/04	16.31	6.04	699	3.16	65.4	139
	8/19/05	16.18	5.17	383	11.79	-23	>990
MW-9	11/4/04	16.57	6.19	570	5.32	74	1,415
	8/19/05	17.43	4.94	292	11.55	-2	190
MW-10	11/20/06	15.7	5.97	94	5.99	-32	77
	1/17/07	11.78	5.8	78	10.04	147	98
	3/19/07	11.22	6.01	105	8.26	103	—
	5/18/07	12.47	5.43	170	6.81	139	—
MW-11	11/20/06	17.03	6.04	164	7.04	-56	69
	1/17/07	15.42	5.96	92	3.49	144	14
	3/19/07	13.84	5.91	130	4.33	89	—
	5/18/07	14.07	5.60	239	3.36	81	—

Notes:
Data measured using field equipment; last measurement before ground water sample collection reported.
°C = Degrees Celsius
mg/l = Milligrams per liter
mV = Millivolts
NTU = Nephelometric turbidity units
pH = acidity/alkalinity
RedOx = Reduction-oxidation potential
µS/cm = MicroSiemens per centimeter

Table 7

Water Level Measurements
Snohomish Square Cleaners Facility
Snohomish, Washington

Monitoring Well	Date	Top of Casing Elevation *feet amsl*	Measured Depth to Water *feet btc*	Ground Water Surface Elevation *feet amsl*
MW-1	11/4/2004	162.20	10.48	151.72
	5/5/2005		8.57	153.63
	8/19/2005		10.45	151.75
	1/17/2007		7.14	155.06
	3/19/2007		NM	—
	5/18/2007		NM	—
MW-2	11/4/2004	164.41	12.32	152.09
	5/5/2005		10.30	154.11
	8/19/2005		12.54	151.87
	1/17/2007		8.37	156.04
	3/19/2007		9.40	155.01
	5/18/2007		11.18	153.23
MW-3	11/4/2004	161.57	9.63	151.94
	5/5/2005		8.05	153.52
	8/19/2005		9.62	151.95
	1/17/2007		5.25	156.32
	3/19/2007		NM	—
	5/18/2007		8.16	153.41
MW-4	11/4/2004	161.09	9.10	151.99
	5/5/2005		6.91	154.18
	8/19/2005		9.07	152.02
	1/17/2007		5.03	156.06
	3/19/2007		6.20	154.89
	5/18/2007		7.96	153.13
MW-5	11/4/2004	169.03	9.10	159.93
	5/5/2005		10.35	158.68
	8/19/2005		11.34	157.69
	1/17/2007		8.80	160.23
	3/19/2007		8.82	160.21
	5/18/2007		10.71	158.32
MW-6	11/4/2004	165.61	16.95	148.66
	5/5/2005		14.60	151.01
	8/19/2005		16.01	149.60
	1/17/2007		13.98	151.63
	3/19/2007		14.35	151.26
	5/18/2007		NM	—
MW-7	11/4/2004	163.64	12.70	150.94
	5/5/2005		10.84	152.80
	8/19/2005		12.18	151.46
	1/17/2007		10.07	153.57
	3/19/2007		10.52	153.12
	5/18/2007		11.30	152.34
MW-8	11/4/2004	163.75	12.00	151.75
	5/5/2005		10.85	152.90
	8/19/2005		12.05	151.70
	1/17/2007		9.92	153.83
	3/19/2007		10.47	153.28
	5/18/2007		11.17	152.58
MW-9	11/4/2004	163.00	12.00	151.00
	5/5/2005		8.75	154.25
	8/19/2005		10.85	152.15
	1/17/2007		8.14	154.86
	3/19/2007		7.94	155.06
	5/18/2007		9.35	153.65
MW-10	1/17/2007	NS	4.82	—
	3/19/2007		6.06	—
	5/18/2007		7.70	—
MW-11	1/17/2007	NS	6.53	—
	3/19/2007		6.59	—
	5/18/2007		7.66	—

Notes:
amsl = Above mean sea level
btc = Below top of casing
NS = Not Surveyed

Table 6

Summary of Pilot Study Injection Program
Snohomish Square Cleaners Facility
Snohomish, Washington

Injection Point	Date Installed	Completed Injection Totalizer Reading[1] *gallons*	Approximate Batches Injected	Approximate Weight of Chemical Injected		
				Potassium Bicarbonate *pounds*	Lactate *pounds*	46% Emulsified Oil Solution *pounds*
IP-1	12/14/2006	846.9	1.8	9	59	202
IP-2	12/15/2006	1,447.2	3	15	99	336
IP-3	12/14/2006	926.6	2.2	11	73	246
IP-4	12/15/2006	582.7	1.2	6	40	134
IP-5	12/14/2006	864.2	1.8	9	59	202
	Totals	**4,667.6**	**10**	**50**	**330**	**1,120**

Notes:

[1]The totalizers were used for flow rate and total volume estimation purposes only. The totalizers are calibrated for use with water and can not accurately measure the flow of substances with densities and viscosities different than water. These total volumes are an estimation only of the total volume of solution injected.

Table 5

Monitoring Well Construction Details

Snohomish Square Cleaners Facility

Snohomish, Washington

Monitoring Well	Well Installed By	Diameter of Well *inches*	Well Construction Material	Ground Surface Elevation *feet amsl*	Top of Casing Elevation *feet amsl*	Top of Filter Pack *feet bgs*	Screened Interval *feet bgs*	Total Depth of Borehole *feet bgs*	Well Depth *feet bgs*
MW-1	Golder	2.00	PVC	162.57	162.20	4.0	5.0-15.0	15.5	15.00
MW-2	Golder	2.00	PVC	164.62	164.41	4.0	5.0-15.0	15.3	15.00
MW-3	Golder	2.00	PVC	161.90	161.57	4.0	4.68-14.68	15.0	14.68
MW-4	Golder	2.00	PVC	161.94	161.09	4.0	5.0-15.0	15.0	15.00
MW-5	ERM	2.00	PVC	169.51	169.03	8.0	10.0-20.0	23.5	20.00
MW-6	ERM	2.00	PVC	165.61	165.61	8.0	9.60-19.60	20.4	19.60
MW-7	ERM	2.00	PVC	164.01	163.64	4.0	5.91-15.91	16.4	15.91
MW-8	ERM	2.00	PVC	164.07	163.75	6.0	8.13-18.13	18.4	18.13
MW-9	ERM	2.00	PVC	163.38	163.00	3.0	5.10-15.10	15.4	15.10
MW-10	ERM	2.00	PVC	NA	NA	8.0	10-20	21.0	20.00
MW-11	ERM	2.00	PVC	NA	NA	8.0	10-20	21.0	20.00

Notes:
amsl = Above mean sea level
bgs = Below ground surface
ERM = ERM-West, Inc.
Golder = Golder Associates, Inc.
PVC = Polyvinyl chloride
NA = Not Available

Table 3

Summary of Natural Attenuation Groundwater Parameters
Snohomish Square Cleaners Facility
Snohomish, Washington

Sample Location	Date	Natural Attenuation Parameters										Halogenated Solvent-Degrading Bacteria		
		Total Organic Carbon	Alkalinity (as calcium carbonate)	Dissolved Iron	Dissolved Manganese	Nitrite	Nitrate	Sulfate	Methane	Ethane	Ethene	Dehalococcoides	Desulfuromonas	Dehalobacter
		mg/l	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*µg/l*	*µg/l*	*µg/l*	*cells/mL*	*cells/mL*	*cells/mL*
MW-4	5/5/2005	8.7	36	0.55	0.029	<0.15	8.1	7.9	---	---	---	1,090	<23.8	1,000
	11/20/2006	2.51	---	<0.150	0.0106	<0.200	---	10.6	194	<10.0	<10.0	---	---	---
	1/17/2007	20.5	---	4.26	1.74	<0.200	---	2.69	22.3	<10.0	<10.0	---	---	---
	3/19/2007	102	---	13.8	2.95	<0.200	---	1.50	261	<10.0	<10.0	---	---	---
	5/18/2007	35.4	---	15.3	3.26	<0.200	---	1.08	1480	<10.0	<10.0	---	---	---
MW-7	5/5/2005	8.3	75	0.48	0.020	<0.15	8.5	11	---	---	---	2.15	<3.92	195
MW-8	5/5/2005	6.0	93	0.02	0.71	<0.15	1.8	20	---	---	---	---	---	---
MW-10	11/20/2006	<2.00	---	<0.150	0.297	<0.200	---	11.9	6.72	<10.0	<10.0	---	---	---
	1/17/2007	<1.00	---	<0.150	0.131	<0.200	---	7.70	2.91	<10.0	<10.0	---	---	---
	3/19/2007	3.69	---	<0.150	0.126	<0.200	---	8.16	<1.20	<10.0	<10.0	---	---	---
	5/18/2007	<2.00	---	<0.150	0.0725	<0.200	---	9.09	<1.20	<10.0	<10.0	---	---	---
MW-11	11/20/2006	2.36	---	<0.150	0.584	<0.200	---	9.64	12.5	<10.0	<10.0	---	---	---
	1/17/2007	<1.00	---	<0.150	0.213	<0.200	---	7.52	1.49	<10.0	<10.0	---	---	---
	3/19/2007	4.00	---	<0.150	0.321	<0.200	---	6.18	5.31	<10.0	<10.0	---	---	---
	5/18/2007	<2.00	---	0.156	0.855	<0.200	---	6.92	16.3	<10.0	<10.0	---	---	---

Notes:
Concentrations reported in milligrams per liter except where otherwise noted.
mL = Milliliter
mg/l Milligrams per liter
µg/l = Micrograms per liter

Table 4

Summary of Volatile Organic Compounds in Excavation Soil Samples
Snohomish Square Cleaners Facility
Snohomish, Washington

Sample ID/Location	Date	Depth (feet bgs)	Excavation Phase	Volatile Organic Compounds		
				PCE *mg/kg*	TCE *mg/kg*	cis-1,2-DCE *mg/kg*
S-1-8.0	8/7/2006	8	1	**2.9**	< 0.010	<0.010
S-2-6.0	8/7/2006	6	1	**0.071**	< 0.010	< 0.010
S-3-5.0	8/7/2006	5	1	**0.051**	< 0.010	<0.010
B-4-0.8	10/7/2004	0.8	1	<0.010	< 0.010	<0.010
S-4-6.5	8/7/2006	6.5	1	**1**	**0.011**	<0.010
S-5-8.0	8/7/2006	8	1	**39**	**0.058**	**0.084**
S-6-6.0	8/10/2006	6	1	**0.77**	< 0.010	<0.010
S-7-6.0	8/10/2006	6	2	**0.43**	< 0.010	<0.010
S-8-8.0	8/10/2006	8	2	**6.3**	**0.11**	**0.19**
S-9-6.0	8/10/2006	6	2	**0.72**	< 0.010	<0.010
S-10-8.0	8/10/2006	8	2	**1.3**	< 0.010	<0.010
S-11-6.0	8/10/2006	6	2	**0.45**	< 0.010	<0.010
S-12-8.0	8/10/2006	8	2	**0.64**	**0.16**	<0.010
S-13-5.0	8/11/2006	5	3	**0.14**	<0.010	<0.010
S-14-8.0	8/11/2006	8	3	**0.66**	<0.010	<0.010
S-15-5.0	8/11/2006	5	3	**0.014**	<0.010	<0.010
S-16-8.0	8/11/2006	8	3	**0.55**	<0.010	<0.010
S-17-5.0	8/11/2006	5	3	**0.61**	<0.010	<0.010
S-18-8.0	8/11/2006	8	3	**1.3**	<0.010	<0.010
S-19-5.0	8/11/2006	5	3	<0.010	<0.010	<0.010
S-20-8.0	8/11/2006	8	3	<0.010	<0.010	<0.010
S-21-5.0	8/14/2006	5	4	**0.55**	<0.010	<0.010
S-22-8.0	8/14/2006	8	4	**0.25**	<0.010	<0.010
S-23-5.0	8/14/2006	5	4	**0.08**	<0.010	<0.010
S-24-8.0	8/14/2006	8	4	**0.014**	<0.010	<0.010
SP-1	8/10/2006	Stockpile	2	**0.11**	<0.010	<0.010
SP-2	8/10/2006	Stockpile	2	**0.095**	<0.010	<0.010
SP-3	8/10/2006	Stockpile	2	**0.11**	<0.010	<0.010
SP2-1	8/14/2006	Stockpile	3 & 4	**0.036**	<0.010	<0.010
SP-2-2	8/14/2006	Stockpile	3 & 4	**0.019**	<0.010	<0.010
SP-2-3	8/14/2006	Stockpile	3 & 4	**0.077**	<0.010	<0.010
Project Screening Levels				**1.9**[1]	**2.5**[1]	**800**[1]

Notes:
Shaded cells indicate concentrations that exceed project screening goals.
Bold value indicates that the constituent was detected.

bgs = below ground surface
cis-1,2-DCE = cis-1,2-Dichloroethene
mg/kg = milligram per kilogram
NA = Not applicable
PCE = Tetrachoroethene
TCE = Trichloroethene
[1]Model Toxics Control Act Method B Soil Cleanup Level - Direct Contact (Chapter 173-340-740 Washington Administrative Code)

Appendix A
Laboratory Analytical Reports

CCI
ANALYTICAL
LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 5/11/2006
CCIL JOB #: 0604144
DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 10:25 B-16-3.0
CCIL SAMPLE # -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	5/8/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Tetrachloroethylene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	5/8/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

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915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 5/11/2006
CCIL JOB #: 0604144
DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 10:25 B-16-3.0
CCIL SAMPLE # -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	5/8/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

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ANALYTICAL
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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 5/11/2006
CCIL JOB #: 0604144
DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 10:35 B-16-8.0
CCIL SAMPLE # -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	5/8/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Tetrachloroethylene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	5/8/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

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CERTIFICATE OF ANALYSIS

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915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 5/11/2006
CCIL JOB #: 0604144
DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 10:35 B-16-8.0
CCIL SAMPLE # -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	5/8/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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915 118TH AVENUE SE SUITE 130
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DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 11:00 B-17-3.5
CCIL SAMPLE # -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	5/8/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Tetrachloroethylene	EPA-8260	53	UG/KG	5/8/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	5/8/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

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BELLEVUE, WA 98005

DATE: 5/11/2006
CCIL JOB #: 0604144
DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 11:00 B-17-3.5
CCIL SAMPLE # -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	5/8/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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DATE: 5/11/2006
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DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 11:30 B-17-8.0
CCIL SAMPLE # -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	5/8/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Tetrachloroethylene	EPA-8260	10	UG/KG	5/8/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	5/8/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 5/11/2006
CCIL JOB #: 0604144
DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 11:30 B-17-8.0
CCIL SAMPLE # -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	5/8/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 5/11/2006
CCIL JOB #: 0604144
DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 13:00 B-18-3.0
CCIL SAMPLE # -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	5/8/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Tetrachloroethylene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	5/8/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 5/11/2006
CCIL JOB #: 0604144
DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 13:00 B-18-3.0
CCIL SAMPLE # -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	5/8/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

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WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 13:10 B-18-8.0
CCIL SAMPLE # -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	5/8/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Tetrachloroethylene	EPA-8260	43	UG/KG	5/8/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	5/8/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 5/11/2006
CCIL JOB #: 0604144
DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 13:10 B-18-8.0
CCIL SAMPLE # -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	5/8/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

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WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 13:20 B-19-3.0
CCIL SAMPLE # -07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	5/8/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Tetrachloroethylene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	5/8/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

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BELLEVUE, WA 98005

DATE: 5/11/2006
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WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 13:20 B-19-3.0
CCIL SAMPLE # -07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	5/8/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

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CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 13:30 B-19-8.0
CCIL SAMPLE # -08

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	5/8/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	20	UG/KG	5/8/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trichloroethene	EPA-8260	12	UG/KG	5/8/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Tetrachloroethylene	EPA-8260	7600	UG/KG	5/9/06	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	5/8/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 5/11/2006
CCIL JOB #: 0604144
DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE
CLIENT SAMPLE ID: 4/26/2006 13:30 B-19-8.0
CCIL SAMPLE # -08

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	5/8/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	5/8/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
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CCIL JOB #: 0604144
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CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID		METHOD	SUR ID	% RECV
0604144-01		EPA-8260	1,2-Dichloroethane-d4	118
0604144-01		EPA-8260	4-Bromofluorobenzene	108
0604144-02		EPA-8260	1,2-Dichloroethane-d4	109
0604144-02		EPA-8260	4-Bromofluorobenzene	107
0604144-03		EPA-8260	1,2-Dichloroethane-d4	134*
0604144-03		EPA-8260	4-Bromofluorobenzene	97
0604144-04		EPA-8260	1,2-Dichloroethane-d4	114
0604144-04		EPA-8260	4-Bromofluorobenzene	107
0604144-05		EPA-8260	1,2-Dichloroethane-d4	104
0604144-05		EPA-8260	4-Bromofluorobenzene	102
0604144-06		EPA-8260	1,2-Dichloroethane-d4	101
0604144-06		EPA-8260	4-Bromofluorobenzene	99
0604144-07		EPA-8260	1,2-Dichloroethane-d4	109
0604144-07		EPA-8260	4-Bromofluorobenzene	96
0604144-08		EPA-8260	1,2-Dichloroethane-d4	105
0604144-08		EPA-8260	4-Bromofluorobenzene	100
0604144-08	(DILUTION)	EPA-8260	1,2-Dichloroethane-d4	126
0604144-08	(DILUTION)	EPA-8260	4-Bromofluorobenzene	93

* SURROGATE OUTSIDE OF CONTROL LIMITS OF 70-130%

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BELLEVUE, WA 98005

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WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Soil	VS050806	0604144 -01 to 08	Dichlorodifluoromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Chloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Vinyl Chloride	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Bromomethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Chloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Trichlorofluoromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,1-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Methylene Chloride	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Trans-1,2-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,1-Dichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Cis-1,2-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	2,2-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Bromochloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Chloroform	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,1,1-Trichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,1-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Carbon Tetrachloride	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,2-Dichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Trichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,2-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Dibromomethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Bromodichloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Trans-1,3-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Cis-1,3-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,1,2-Trichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,3-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Tetrachloroethylene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Dibromochloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,2-Dibromoethane	ND(<5)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Chlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,1,1,2-Tetrachloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Bromoform	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,1,2,2-Tetrachloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,2,3-Trichloropropane	ND(<10)	UG/KG

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915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 5/11/2006
CCIL JOB #: 0604144
DATE RECEIVED: 4/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Soil	VS050806	0604144 -01 to 08	Bromobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	2-Chlorotoluene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	4-Chlorotoluene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,3 Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,4-Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,2-Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,2-Dibromo 3-Chloropropane	ND(<50)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,2,4-Trichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	Hexachlorobutadiene	ND(<10)	UG/KG
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,2,3-Trichlorobenzene	ND(<10)	UG/KG

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CLIENT CONTACT: MIKE ARNOLD

CLIENT PROJECT ID: SNOHOMISH SQUARE

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
EPA-8260	Soil	VS050806	0604144 -01 to 08	1,1-Dichloroethene	120 %	107 %	11
EPA-8260	Soil	VS050806	0604144 -01 to 08	Trichloroethene	113 %	101 %	12
EPA-8260	Soil	VS050806	0604144 -01 to 08	Chlorobenzene	116 %	108 %	7

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/8/2006
CCIL JOB #: 0608049
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/7/2006 14:50 S-1-8.0
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/7/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Tetrachloroethylene	EPA-8260	2900	UG/KG	8/8/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/7/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN

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CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/8/2006
CCIL JOB #: 0608049
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/7/2006 14:50 S-1-8.0
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/7/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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APPROVED BY:

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CERTIFICATE OF ANALYSIS

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BELLEVUE, WA 98005

DATE: 8/8/2006
CCIL JOB #: 0608049
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/7/2006 15:20 S-2-6.0
CCIL SAMPLE #: -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/7/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Tetrachloroethylene	EPA-8260	71	UG/KG	8/8/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/7/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/8/2006
CCIL JOB #: 0608049
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/7/2006 15:20 S-2-6.0
CCIL SAMPLE #: -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/7/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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DATE: 8/8/2006
CCIL JOB #: 0608049
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/7/2006 15:10 S-3-5.0
CCIL SAMPLE #: -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/7/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Tetrachloroethylene	EPA-8260	51	UG/KG	8/7/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/7/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/8/2006
CCIL JOB #: 0608049
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/7/2006 15:10 S-3-5.0
CCIL SAMPLE #: -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/7/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/8/2006
CCIL JOB #: 0608049
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/7/2006 15:02 S-4-6.5
CCIL SAMPLE #: -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/7/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trichloroethene	EPA-8260	11	UG/KG	8/7/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Tetrachloroethylene	EPA-8260	1000	UG/KG	8/8/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/7/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/8/2006
CCIL JOB #: 0608049
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/7/2006 15:02 S-4-6.5
CCIL SAMPLE #: -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/7/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN

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APPROVED BY:

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915,118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/8/2006
CCIL JOB #: 0608049
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/7/2006 15:15 S-5-8.0
CCIL SAMPLE #: -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/7/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	84	UG/KG	8/8/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trichloroethene	EPA-8260	58	UG/KG	8/8/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Tetrachloroethylene	EPA-8260	39000	UG/KG	8/8/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/7/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/8/2006
CCIL JOB #: 0608049
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/7/2006 15:15 S-5-8.0
CCIL SAMPLE #: -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/7/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/7/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID		METHOD	SUR ID	% RECV
0608049-01		EPA-8260	1,2-Dichloroethane-d4	103
0608049-01		EPA-8260	4-Bromofluorobenzene	109
0608049-01	DILUTION	EPA-8260	1,2-Dichloroethane-d4	100
0608049-01	DILUTION	EPA-8260	4-Bromofluorobenzene	96
0608049-02		EPA-8260	1,2-Dichloroethane-d4	94
0608049-02		EPA-8260	4-Bromofluorobenzene	100
0608049-02	DILUTION	EPA-8260	1,2-Dichloroethane-d4	105
0608049-02	DILUTION	EPA-8260	4-Bromofluorobenzene	84
0608049-03		EPA-8260	1,2-Dichloroethane-d4	101
0608049-03		EPA-8260	4-Bromofluorobenzene	94
0608049-04		EPA-8260	1,2-Dichloroethane-d4	101
0608049-04		EPA-8260	4-Bromofluorobenzene	100
0608049-04	DILUTION	EPA-8260	1,2-Dichloroethane-d4	105
0608049-04	DILUTION	EPA-8260	4-Bromofluorobenzene	89
0608049-05		EPA-8260	1,2-Dichloroethane-d4	104
0608049-05		EPA-8260	4-Bromofluorobenzene	105
0608049-05	DILUTION	EPA-8260	1,2-Dichloroethane-d4	101
0608049-05	DILUTION	EPA-8260	4-Bromofluorobenzene	93
0608049-05	DILUTION	EPA-8260	1,2-Dichloroethane-d4	108
0608049-05	DILUTION	EPA-8260	4-Bromofluorobenzene	93

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CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Soil	VS27080706	0608049-01 to 05	Dichlorodifluoromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Chloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Vinyl Chloride	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Bromomethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Chloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Trichlorofluoromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,1-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Methylene Chloride	ND(<20)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Trans-1,2-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,1-Dichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Cis-1,2-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	2,2-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Bromochloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Chloroform	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,1,1-Trichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,1-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Carbon Tetrachloride	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,2-Dichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Trichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,2-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Dibromomethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Bromodichloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Trans-1,3-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Cis-1,3-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,1,2-Trichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,3-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Tetrachloroethylene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Dibromochloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,2-Dibromoethane	ND(<5)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Chlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,1,1,2-Tetrachloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Bromoform	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,1,2,2-Tetrachloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,2,3-Trichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049-01 to 05	Bromobenzene	ND(<10)	UG/KG

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LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/8/2006
CCIL JOB #: 0608049
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Soil	VS27080706	0608049 -01 to 05	2-Chlorotoluene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049 -01 to 05	4-Chlorotoluene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049 -01 to 05	1,3 Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049 -01 to 05	1,4-Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049 -01 to 05	1,2-Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049 -01 to 05	1,2-Dibromo 3-Chloropropane	ND(<50)	UG/KG
EPA-8260	Soil	VS27080706	0608049 -01 to 05	1,2,4-Trichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049 -01 to 05	Hexachlorobutadiene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608049 -01 to 05	1,2,3-Trichlorobenzene	ND(<10)	UG/KG

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CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
EPA-8260	Soil	VS27080706	0608049-01 to 05	1,1-Dichloroethene	109 %	106 %	3
EPA-8260	Soil	VS27080706	0608049-01 to 05	Trichloroethene	106 %	99 %	7
EPA-8260	Soil	VS27080706	0608049-01 to 05	Chlorobenzene	108 %	101 %	7

APPROVED BY:

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 10:00 S-12-8.0
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/10/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Tetrachloroethylene	EPA-8260	640	UG/KG	8/10/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/10/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 10:00 S-12-8.0
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/10/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 9:55 S-11-6.0
CCIL SAMPLE #: -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/10/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Tetrachloroethylene	EPA-8260	450	UG/KG	8/10/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/10/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 9:55 S-11-6.0
CCIL SAMPLE #: -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/10/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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APPROVED BY:

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 9:50 S-10-8.0
CCIL SAMPLE #: -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/10/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Tetrachloroethylene	EPA-8260	1300	UG/KG	8/10/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/10/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 9:50 S-10-8.0
CCIL SAMPLE #: -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/10/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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APPROVED BY:

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 9:45 S-9-6.0
CCIL SAMPLE #: -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/10/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Tetrachloroethylene	EPA-8260	720	UG/KG	8/10/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/10/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 9:45 S-9-6.0
CCIL SAMPLE #: -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/10/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

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LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 9:40 S-8-8.0
CCIL SAMPLE #: -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/10/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	190	UG/KG	8/10/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichloroethene	EPA-8260	110	UG/KG	8/10/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Tetrachloroethylene	EPA-8260	6300	UG/KG	8/10/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/10/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 9:40 S-8-8.0
CCIL SAMPLE #: -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/10/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 9:35 S-7-6.0
CCIL SAMPLE #: -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/10/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Tetrachloroethylene	EPA-8260	430	UG/KG	8/10/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/10/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 9:35 S-7-6.0
CCIL SAMPLE #: -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/10/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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APPROVED BY:

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LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 9:30 S-6-6.0
CCIL SAMPLE #: -07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/10/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Tetrachloroethylene	EPA-8260	770	UG/KG	8/10/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/10/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 9:30 S-6-6.0
CCIL SAMPLE #: -07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/10/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

8620 Holly Drive Suite 100 Everett, WA 98208 425 356-2600 FAX 425 356-2626 Seattle 206 292-9059

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 10:35 SP-1
CCIL SAMPLE #: -08

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/10/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Tetrachloroethylene	EPA-8260	110	UG/KG	8/10/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/10/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 10:35 SP-1
CCIL SAMPLE #: -08

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/10/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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APPROVED BY:

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 10:38 SP-2
CCIL SAMPLE #: -09

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/10/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Tetrachloroethylene	EPA-8260	95	UG/KG	8/10/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/10/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 10:38 SP-2
CCIL SAMPLE #: -09

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/10/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 10:40 SP-3
CCIL SAMPLE #: -10

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/10/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Tetrachloroethylene	EPA-8260	110	UG/KG	8/10/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/10/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/10/2006 10:40 SP-3
CCIL SAMPLE #: -10

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/10/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/10/2006	CCN

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CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID		METHOD	SUR ID	% RECV
0608068-01		EPA-8260	1,2-Dichloroethane-d4	106
0608068-01		EPA-8260	4-Bromofluorobenzene	108
0608068-01	DILUTION	EPA-8260	1,2-Dichloroethane-d4	133
0608068-01	DILUTION	EPA-8260	4-Bromofluorobenzene	88
0608068-02		EPA-8260	1,2-Dichloroethane-d4	99
0608068-02		EPA-8260	4-Bromofluorobenzene	96
0608068-02	DILUTION	EPA-8260	1,2-Dichloroethane-d4	102
0608068-02	DILUTION	EPA-8260	4-Bromofluorobenzene	94
0608068-03		EPA-8260	1,2-Dichloroethane-d4	97
0608068-03		EPA-8260	4-Bromofluorobenzene	94
0608068-03	DILUTION	EPA-8260	1,2-Dichloroethane-d4	121
0608068-03	DILUTION	EPA-8260	4-Bromofluorobenzene	85
0608068-03	DILUTION	EPA-8260	1,2-Dichloroethane-d4	129
0608068-03	DILUTION	EPA-8260	4-Bromofluorobenzene	78
0608068-04		EPA-8260	1,2-Dichloroethane-d4	102
0608068-04		EPA-8260	4-Bromofluorobenzene	93
0608068-04	DILUTION	EPA-8260	1,2-Dichloroethane-d4	117
0608068-04	DILUTION	EPA-8260	4-Bromofluorobenzene	83
0608068-05		EPA-8260	1,2-Dichloroethane-d4	99
0608068-05		EPA-8260	4-Bromofluorobenzene	99
0608068-05	DILUTION	EPA-8260	1,2-Dichloroethane-d4	115
0608068-05	DILUTION	EPA-8260	4-Bromofluorobenzene	86
0608068-05	DILUTION	EPA-8260	1,2-Dichloroethane-d4	105
0608068-05	DILUTION	EPA-8260	4-Bromofluorobenzene	92
0608068-06		EPA-8260	1,2-Dichloroethane-d4	110
0608068-06		EPA-8260	4-Bromofluorobenzene	109
0608068-06	DILUTION	EPA-8260	1,2-Dichloroethane-d4	111
0608068-06	DILUTION	EPA-8260	4-Bromofluorobenzene	90
0608068-07		EPA-8260	1,2-Dichloroethane-d4	100
0608068-07		EPA-8260	4-Bromofluorobenzene	98
0608068-07	DILUTION	EPA-8260	1,2-Dichloroethane-d4	116
0608068-07	DILUTION	EPA-8260	4-Bromofluorobenzene	88
0608068-08		EPA-8260	1,2-Dichloroethane-d4	103
0608068-08		EPA-8260	4-Bromofluorobenzene	97
0608068-08	DILUTION	EPA-8260	1,2-Dichloroethane-d4	111
0608068-08	DILUTION	EPA-8260	4-Bromofluorobenzene	102
0608068-09		EPA-8260	1,2-Dichloroethane-d4	103
0608068-09		EPA-8260	4-Bromofluorobenzene	100
0608068-09	DILUTION	EPA-8260	1,2-Dichloroethane-d4	117
0608068-09	DILUTION	EPA-8260	4-Bromofluorobenzene	90

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915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
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WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID		METHOD	SUR ID	% RECV
0608068-10		EPA-8260	1,2-Dichloroethane-d4	101
0608068-10		EPA-8260	4-Bromofluorobenzene	101
0608068-10	DILUTION	EPA-8260	1,2-Dichloroethane-d4	122
0608068-10	DILUTION	EPA-8260	4-Bromofluorobenzene	88

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CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Dichlorodifluoromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Chloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Vinyl Chloride	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Bromomethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Chloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Trichlorofluoromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,1-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Methylene Chloride	ND(<20)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Trans-1,2-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,1-Dichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Cis-1,2-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	2,2-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Bromochloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Chloroform	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,1,1-Trichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,1-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Carbon Tetrachloride	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,2-Dichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Trichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,2-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Dibromomethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Bromodichloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Trans-1,3-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Cis-1,3-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,1,2-Trichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,3-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Tetrachloroethylene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Dibromochloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,2-Dibromoethane	ND(<5)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Chlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,1,1,2-Tetrachloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Bromoform	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,1,2,2-Tetrachloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,2,3-Trichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Bromobenzene	ND(<10)	UG/KG

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LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/11/2006
CCIL JOB #: 0608068
DATE RECEIVED: 8/10/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Soil	VS27080706	0608068 -01 to 10	2-Chlorotoluene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	4-Chlorotoluene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,3 Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,4-Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,2-Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,2-Dibromo 3-Chloropropane	ND(<50)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,2,4-Trichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Hexachlorobutadiene	ND(<10)	UG/KG
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,2,3-Trichlorobenzene	ND(<10)	UG/KG

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CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
EPA-8260	Soil	VS27080706	0608068 -01 to 10	1,1-Dichloroethene	109 %	106 %	3
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Trichloroethene	106 %	99 %	7
EPA-8260	Soil	VS27080706	0608068 -01 to 10	Chlorobenzene	108 %	101 %	7

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 13:00 S-13-5.0
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/12/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Tetrachloroethylene	EPA-8260	140	UG/KG	8/13/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/12/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 13:00 S-13-5.0
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/12/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 13:05 S-14-8.0
CCIL SAMPLE #: -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/12/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Tetrachloroethylene	EPA-8260	660	UG/KG	8/13/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/12/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 13:05 S-14-8.0
CCIL SAMPLE #: -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/12/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

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APPROVED BY:

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915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 13:15 S-15-5.0
CCIL SAMPLE #: -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/12/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Tetrachloroethylene	EPA-8260	14	UG/KG	8/12/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/12/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 13:15 S-15-5.0
CCIL SAMPLE #: -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/12/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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APPROVED BY:

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 13:20 S-16-8.0
CCIL SAMPLE #: -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/12/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Tetrachloroethylene	EPA-8260	550	UG/KG	8/13/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/12/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 13:20 S-16-8.0
CCIL SAMPLE #: -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/12/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

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LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 13:35 S-17-5.0
CCIL SAMPLE #: -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/12/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Tetrachloroethylene	EPA-8260	610	UG/KG	8/13/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/12/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 13:35 S-17-5.0
CCIL SAMPLE #: -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/12/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 13:40 S-18-8.0
CCIL SAMPLE #: -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/12/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Tetrachloroethylene	EPA-8260	1300	UG/KG	8/13/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/12/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 13:40 S-18-8.0
CCIL SAMPLE #: -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/12/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

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APPROVED BY:

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 14:25 S-19-5.0
CCIL SAMPLE #: -07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/12/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Tetrachloroethylene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/12/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 14:25 S-19-5.0
CCIL SAMPLE #: -07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/12/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

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LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 14:30 S-20-8.0
CCIL SAMPLE #: -08

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/12/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Tetrachloroethylene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/12/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/11/2006 14:30 S-20-8.0
CCIL SAMPLE #: -08

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/12/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/12/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
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WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID		METHOD	SUR ID	% RECV
0608081-01		EPA-8260	1,2-Dichloroethane-d4	109
0608081-01		EPA-8260	4-Bromofluorobenzene	100
0608081-01	DILUTION	EPA-8260	1,2-Dichloroethane-d4	131
0608081-01	DILUTION	EPA-8260	4-Bromofluorobenzene	76
0608081-02		EPA-8260	1,2-Dichloroethane-d4	104
0608081-02		EPA-8260	4-Bromofluorobenzene	102
0608081-02	DILUTION	EPA-8260	1,2-Dichloroethane-d4	115
0608081-02	DILUTION	EPA-8260	4-Bromofluorobenzene	93
0608081-03		EPA-8260	1,2-Dichloroethane-d4	104
0608081-03		EPA-8260	4-Bromofluorobenzene	99
0608081-04		EPA-8260	1,2-Dichloroethane-d4	102
0608081-04		EPA-8260	4-Bromofluorobenzene	98
0608081-04	DILUTION	EPA-8260	1,2-Dichloroethane-d4	100
0608081-04	DILUTION	EPA-8260	4-Bromofluorobenzene	114
0608081-05		EPA-8260	1,2-Dichloroethane-d4	104
0608081-05		EPA-8260	4-Bromofluorobenzene	97
0608081-05	DILUTION	EPA-8260	1,2-Dichloroethane-d4	101
0608081-05	DILUTION	EPA-8260	4-Bromofluorobenzene	99
0608081-06		EPA-8260	1,2-Dichloroethane-d4	103
0608081-06		EPA-8260	4-Bromofluorobenzene	108
0608081-06	DILUTION	EPA-8260	1,2-Dichloroethane-d4	100
0608081-06	DILUTION	EPA-8260	4-Bromofluorobenzene	107
0608081-07		EPA-8260	1,2-Dichloroethane-d4	103
0608081-07		EPA-8260	4-Bromofluorobenzene	95
0608081-08		EPA-8260	1,2-Dichloroethane-d4	99
0608081-08		EPA-8260	4-Bromofluorobenzene	96

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CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Dichlorodifluoromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Chloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Vinyl Chloride	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Bromomethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Chloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Trichlorofluoromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,1-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Methylene Chloride	ND(<20)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Trans-1,2-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,1-Dichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Cis-1,2-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	2,2-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Bromochloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Chloroform	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,1,1-Trichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,1-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Carbon Tetrachloride	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,2-Dichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Trichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,2-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Dibromomethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Bromodichloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Trans-1,3-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Cis-1,3-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,1,2-Trichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,3-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Tetrachloroethylene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Dibromochloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,2-Dibromoethane	ND(<5)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Chlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,1,1,2-Tetrachloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Bromoform	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,1,2,2-Tetrachloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,2,3-Trichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Bromobenzene	ND(<10)	UG/KG

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915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/14/2006
CCIL JOB #: 0608081
DATE RECEIVED: 8/11/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Soil	VS27081106	0608081 -01 to 08	2-Chlorotoluene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	4-Chlorotoluene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,3 Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,4-Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,2-Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,2-Dibromo 3-Chloropropane	ND(<50)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,2,4-Trichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Hexachlorobutadiene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,2,3-Trichlorobenzene	ND(<10)	UG/KG

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CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
EPA-8260	Soil	VS27081106	0608081 -01 to 08	1,1-Dichloroethene	92 %	99 %	7
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Trichloroethene	93 %	101 %	9
EPA-8260	Soil	VS27081106	0608081 -01 to 08	Chlorobenzene	91 %	94 %	3

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 11:40 S-21-5.0
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/14/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Tetrachloroethylene	EPA-8260	550	UG/KG	8/14/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/14/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 11:40 S-21-5.0
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/14/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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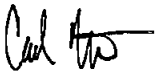

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CCIL JOB #: 0608085
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WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 11:45 S-22-8.0
CCIL SAMPLE #: -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/14/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Tetrachloroethylene	EPA-8260	250	UG/KG	8/14/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/14/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 11:45 S-22-8.0
CCIL SAMPLE #: -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/14/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

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LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 12:05 S-23-5.0
CCIL SAMPLE #: -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/14/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Tetrachloroethylene	EPA-8260	80	UG/KG	8/14/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/14/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 12:05 S-23-5.0
CCIL SAMPLE #: -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/14/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN

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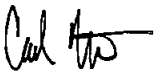

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 12:10 S-24-8.0
CCIL SAMPLE #: -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/14/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Tetrachloroethylene	EPA-8260	14	UG/KG	8/14/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/14/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 12:10 S-24-8.0
CCIL SAMPLE #: -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/14/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/14/2006	CCN

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** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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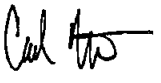

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 12:30 SP2-1
CCIL SAMPLE #: -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/15/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Tetrachloroethylene	EPA-8260	36	UG/KG	8/15/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/15/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 12:30 SP2-1
CCIL SAMPLE #: -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/15/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN

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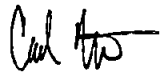

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915 118TH AVENUE SE SUITE 130
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DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 12:33 SP2-2
CCIL SAMPLE #: -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/15/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Tetrachloroethylene	EPA-8260	19	UG/KG	8/15/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/15/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 12:33 SP2-2
CCIL SAMPLE #: -06

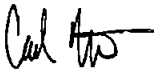
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/15/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 12:35 SP2-3
CCIL SAMPLE #: -07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Chloromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Vinyl Chloride	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromomethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Chloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Methylene Chloride	EPA-8260	ND(<20)	UG/KG	8/15/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromochloromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Chloroform	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Trichloroethene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Dibromomethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromodichloromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Tetrachloroethylene	EPA-8260	77	UG/KG	8/14/2006	CCN
Dibromochloromethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<5)	UG/KG	8/15/2006	CCN
Chlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromoform	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Bromobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ERM
915 118TH AVENUE SE SUITE 130
BELLEVUE, WA 98005

DATE: 8/15/2006
CCIL JOB #: 0608085
DATE RECEIVED: 8/14/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167
CLIENT SAMPLE ID: 8/14/2006 12:35 SP2-3
CCIL SAMPLE #: -07

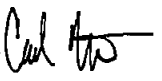
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<50)	UG/KG	8/15/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<10)	UG/KG	8/15/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



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CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID		METHOD	SUR ID	% RECV
0608085-01		EPA-8260	1,2-Dichloroethane-d4	96
0608085-01		EPA-8260	4-Bromofluorobenzene	93
0608085-01	DILUTION	EPA-8260	1,2-Dichloroethane-d4	95
0608085-01	DILUTION	EPA-8260	4-Bromofluorobenzene	101
0608085-02		EPA-8260	1,2-Dichloroethane-d4	101
0608085-02		EPA-8260	4-Bromofluorobenzene	104
0608085-02	DILUTION	EPA-8260	1,2-Dichloroethane-d4	93
0608085-02	DILUTION	EPA-8260	4-Bromofluorobenzene	111
0608085-03		EPA-8260	1,2-Dichloroethane-d4	101
0608085-03		EPA-8260	4-Bromofluorobenzene	94
0608085-03	DILUTION	EPA-8260	1,2-Dichloroethane-d4	103
0608085-03	DILUTION	EPA-8260	4-Bromofluorobenzene	93
0608085-04		EPA-8260	1,2-Dichloroethane-d4	100
0608085-04		EPA-8260	4-Bromofluorobenzene	95
0608085-05		EPA-8260	1,2-Dichloroethane-d4	105
0608085-05		EPA-8260	4-Bromofluorobenzene	99
0608085-06		EPA-8260	1,2-Dichloroethane-d4	105
0608085-06		EPA-8260	4-Bromofluorobenzene	103
0608085-07		EPA-8260	1,2-Dichloroethane-d4	98
0608085-07		EPA-8260	4-Bromofluorobenzene	95
0608085-07	DILUTION	EPA-8260	1,2-Dichloroethane-d4	108
0608085-07	DILUTION	EPA-8260	4-Bromofluorobenzene	94

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CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Dichlorodifluoromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Chloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Vinyl Chloride	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Bromomethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Chloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Trichlorofluoromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,1-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Methylene Chloride	ND(<20)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Trans-1,2-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,1-Dichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Cis-1,2-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	2,2-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Bromochloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Chloroform	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,1,1-Trichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,1-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Carbon Tetrachloride	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,2-Dichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Trichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,2-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Dibromomethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Bromodichloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Trans-1,3-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Cis-1,3-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,1,2-Trichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,3-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Tetrachloroethylene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Dibromochloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,2-Dibromoethane	ND(<5)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Chlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,1,1,2-Tetrachloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Bromoform	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,1,2,2-Tetrachloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,2,3-Trichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Bromobenzene	ND(<10)	UG/KG

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CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Soil	VS27081306	0608085 -01 to 07	2-Chlorotoluene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	4-Chlorotoluene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,3 Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,4-Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,2-Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,2-Dibromo 3-Chloropropane	ND(<50)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,2,4-Trichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Hexachlorobutadiene	ND(<10)	UG/KG
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,2,3-Trichlorobenzene	ND(<10)	UG/KG

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DATE: 8/15/2006
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WDOE ACCREDITATION #: C142

CLIENT CONTACT: JENNIFER BARRETT
CLIENT PROJECT ID: 48167

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
EPA-8260	Soil	VS27081306	0608085 -01 to 07	1,1-Dichloroethene	123 %	123 %	0
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Trichloroethene	123 %	114 %	8
EPA-8260	Soil	VS27081306	0608085 -01 to 07	Chlorobenzene	121 %	108 %	11

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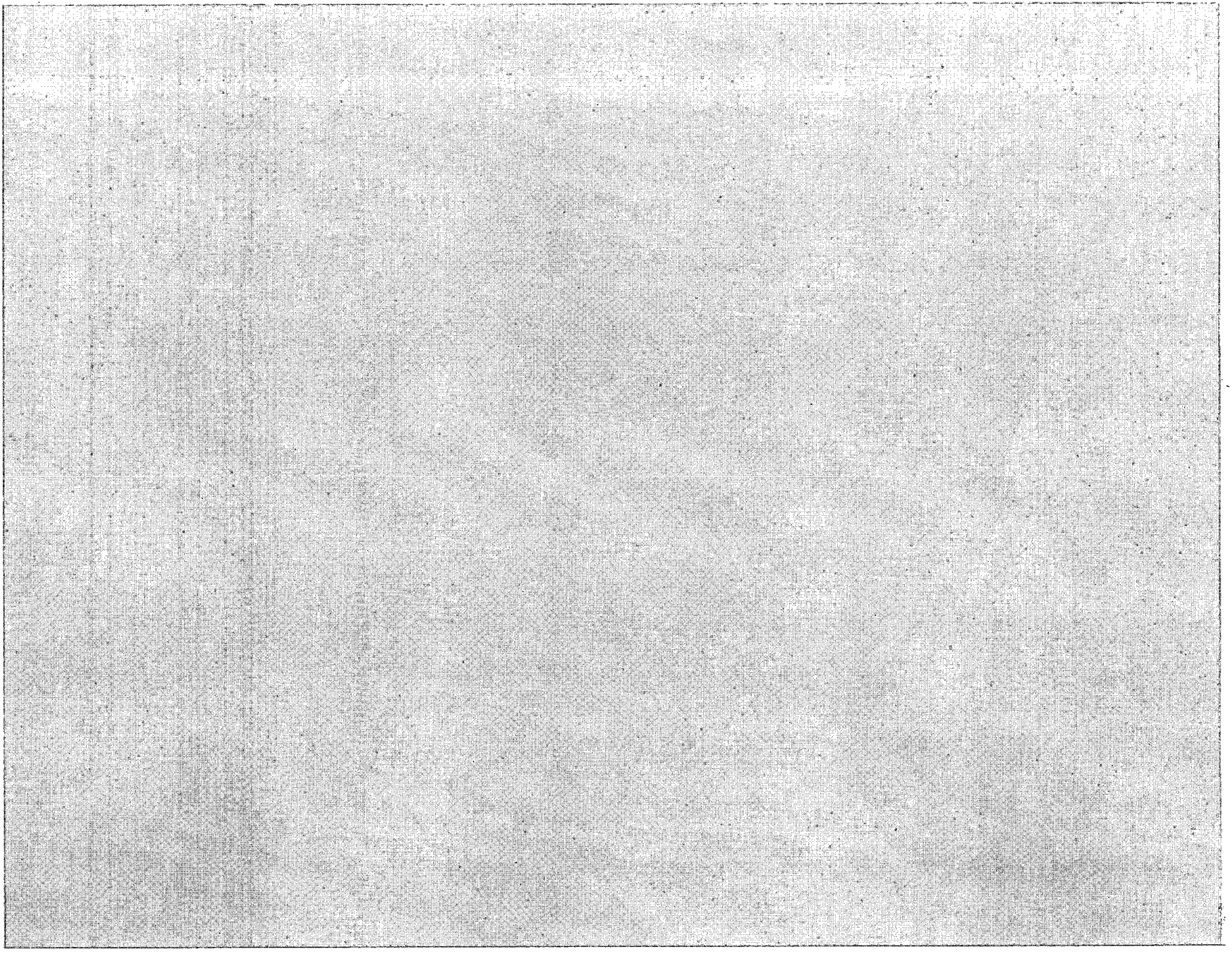

TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

December 05, 2006

Brian Magee
ERM-Bellevue
915-118th Avenue S.E., Suite 130
Bellevue, WA 98005

RE: Snohomish Square

Enclosed are the results of analyses for samples received by the laboratory on 11/22/06 07:45. The following list is a summary of the Work Orders contained in this report, generated on 12/05/06 17:32.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
BPK0625	Snohomish Square	48167

Kortland Orr, PM

TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4-112006	BPK0625-01	Water	11/20/06 15:20	11/22/06 07:45
MW-10-112006	BPK0625-02	Water	11/20/06 14:30	11/22/06 07:45
MW-11-112006	BPK0625-03	Water	11/20/06 13:30	11/22/06 07:45

TestAmerica - Seattle, WA

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Dissolved Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0625-01 (MW-4-112006)		**Water**			**Sampled: 11/20/06 15:20**					
Iron	EPA 6010B - Diss	ND	—	0.150	mg/l	1x	6K30004	11/30/06 08:40	11/30/06 10:53	
Manganese	"	**0.0106**	—	0.0100	"	"	"	"	"	
BPK0625-02 (MW-10-112006)		**Water**			**Sampled: 11/20/06 14:30**					
Iron	EPA 6010B - Diss	ND	—	0.150	mg/l	1x	6K30004	11/30/06 08:40	11/30/06 10:59	
Manganese	"	**0.297**	—	0.0100	"	"	"	"	"	
BPK0625-03 (MW-11-112006)		**Water**			**Sampled: 11/20/06 13:30**					
Iron	EPA 6010B - Diss	ND	—	0.150	mg/l	1x	6K30004	11/30/06 08:40	11/30/06 11:04	
Manganese	"	**0.584**	—	0.0100	"	"	"	"	"	

Kortland Orr, PM

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ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0625-01 (MW-4-112006)		**Water**			**Sampled: 11/20/06 15:20**					
Bromochloromethane	EPA 8260B	ND	----	0.200	ug/l	1x	6K30032	11/30/06 10:36	11/30/06 19:41	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.200	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	**7.51**	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	**0.320**	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
Tetrachloroethene	"	**1190**	----	0.200	"	"	"	"	"	E-01
1,1,1-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
Trichloroethene	"	**9.23**	----	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	----	0.200	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*79.5%*		*70 - 130 %*	"			"	
Toluene-d8			*104%*		*70 - 130 %*	"			"	
4-BFB			*105%*		*70 - 130 %*	"			"	

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915-118th Avenue S.E., Suite 130	Project Number: 48167	Report Created:
Bellevue, WA 98005	Project Manager: Brian Magee	12/05/06 17:32

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL^	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0625-01RE1 (MW-4-112006)		**Water**			**Sampled: 11/20/06 15:20**					
Tetrachloroethene	EPA 8260B	**1280**	—	8.00	ug/l	40x	6L01070	12/01/06 12:29	12/01/06 19:38	
Surrogate(s): 1,2-DCA-d4			*103%*		*70 - 130 %*	*1x*			"	
Toluene-d8			*99.0%*		*70 - 130 %*	"			"	
4-BFB			*99.5%*		*70 - 130 %*	"			"	
BPK0625-02 (MW-10-112006)		**Water**			**Sampled: 11/20/06 14:30**					
Bromochloromethane	EPA 8260B	ND	—	0.200	ug/l	1x	6K30032	11/30/06 10:36	11/30/06 20:07	
Bromodichloromethane	"	ND	—	0.200	"	"	"	"	"	
Bromoform	"	ND	—	0.200	"	"	"	"	"	
Bromomethane	"	ND	—	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	—	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	—	0.200	"	"	"	"	"	
Chloroethane	"	ND	—	1.00	"	"	"	"	"	
Chloroform	"	ND	—	0.200	"	"	"	"	"	
Chloromethane	"	ND	—	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	—	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	**12.7**	—	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	**0.940**	—	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	—	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
Methylene chloride	"	ND	—	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	—	0.500	"	"	"	"	"	
Tetrachloroethene	"	**1460**	—	0.200	"	"	"	"	"	E-01
1,1,1-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
Trichloroethene	"	**17.8**	—	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	—	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	—	0.200	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*79.0%*		*70 - 130 %*	"			"	
Toluene-d8			*94.5%*		*70 - 130 %*	"			"	
4-BFB			*106%*		*70 - 130 %*	"			"	

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ERM-Bellevue	Project Name: **Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number: 48167	Report Created:
Bellevue, WA 98005	Project Manager: Brian Magee	12/05/06 17:32

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0625-02RE1 (MW-10-112006)		**Water**			**Sampled: 11/20/06 14:30**					
Tetrachloroethene	EPA 8260B	**1510**	—	8.00	ug/l	40x	6L01070	12/01/06 12:29	12/01/06 20:03	
Surrogate(s): 1,2-DCA-d4			*103%*		*70 - 130 %*	*1x*			"	
Toluene-d8			*101%*		*70 - 130 %*	"			"	
4-BFB			*102%*		*70 - 130 %*	"			"	
BPK0625-03 (MW-11-112006)		**Water**			**Sampled: 11/20/06 13:30**					
Bromochloromethane	EPA 8260B	ND	—	0.200	ug/l	1x	6K30032	11/30/06 10:36	11/30/06 20:33	
Bromodichloromethane	"	ND	—	0.200	"	"	"	"	"	
Bromoform	"	ND	—	0.200	"	"	"	"	"	
Bromomethane	"	ND	—	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	—	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	—	0.200	"	"	"	"	"	
Chloroethane	"	ND	—	1.00	"	"	"	"	"	
Chloroform	"	**0.290**	—	0.200	"	"	"	"	"	
Chloromethane	"	ND	—	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	—	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	**10.6**	—	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	**0.630**	—	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	—	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
Methylene chloride	"	ND	—	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	—	0.500	"	"	"	"	"	
Tetrachloroethene	"	**1010**	—	0.200	"	"	"	"	"	E-01
1,1,1-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
Trichloroethene	"	**11.5**	—	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	—	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	—	0.200	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*82.0%*		*70 - 130 %*	"			"	
Toluene-d8			*85.0%*		*70 - 130 %*	"			"	
4-BFB			*104%*		*70 - 130 %*	"			"	

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915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0625-03RE1 (MW-11-112006)		**Water**			**Sampled: 11/20/06 13:30**					
Tetrachloroethene	EPA 8260B	**1000**	—	8.00	ug/l	40x	6L01070	12/01/06 12:29	12/01/06 20:29	
Surrogate(s): 1,2-DCA-d4			*104%*		*70 - 130 %*	*1x*			"	
Toluene-d8			*100%*		*70 - 130 %*	"			"	
4-BFB			*102%*		*70 - 130 %*	"			"	

TestAmerica - Seattle, WA

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0625-01 (MW-4-112006)		**Water**			**Sampled: 11/20/06 15:20**					
Total Organic Carbon	EPA 415.1	**2.51**	—	2.00	mg/l	1x	6K22038	11/22/06 11:00	11/22/06 14:50	
BPK0625-02 (MW-10-112006)		**Water**			**Sampled: 11/20/06 14:30**					
Total Organic Carbon	EPA 415.1	ND	—	2.00	mg/l	1x	6K22038	11/22/06 11:00	11/22/06 15:17	
BPK0625-03 (MW-11-112006)		**Water**			**Sampled: 11/20/06 13:30**					
Total Organic Carbon	EPA 415.1	**2.36**	—	2.00	mg/l	1x	6K22038	11/22/06 11:00	11/22/06 15:25	

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Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Anions by EPA Method 300.0

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0625-01 (MW-4-112006)		**Water**			**Sampled: 11/20/06 15:20**					
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	6K22028	11/22/06 10:00	11/22/06 11:04	
Sulfate	"	**10.6**	---	0.400	mg/l	"	"	"	"	
BPK0625-02 (MW-10-112006)		**Water**			**Sampled: 11/20/06 14:30**					
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	6K22028	11/22/06 10:00	11/22/06 11:51	
Sulfate	"	**11.9**	---	0.400	mg/l	"	"	"	"	
BPK0625-03 (MW-11-112006)		**Water**			**Sampled: 11/20/06 13:30**					
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	6K22028	11/22/06 10:00	11/22/06 12:07	
Sulfate	"	**9.64**	---	0.400	mg/l	"	"	"	"	

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Hydrocarbons by GC/FID Headspace

TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0625-01 (MW-4-112006)		**Water**				**Sampled: 11/20/06 15:20**				
Methane	RSK 175	**194**	---	1.20	ug/l	1x	6120002	12/01/06 11:22	12/01/06 12:00	
Ethane	"	ND	---	10.0	"	"	"	"	"	
Ethene	"	ND	---	10.0	"	"	"	"	"	
BPK0625-02 (MW-10-112006)		**Water**				**Sampled: 11/20/06 14:30**				
Methane	RSK 175	**6.72**	---	1.20	ug/l	1x	6120002	12/01/06 11:22	12/01/06 12:00	
Ethane	"	ND	---	10.0	"	"	"	"	"	
Ethene	"	ND	---	10.0	"	"	"	"	"	
BPK0625-03 (MW-11-112006)		**Water**				**Sampled: 11/20/06 13:30**				
Methane	RSK 175	**12.5**	---	1.20	ug/l	1x	6120002	12/01/06 11:22	12/01/06 12:00	
Ethane	"	ND	---	10.0	"	"	"	"	"	
Ethene	"	ND	---	10.0	"	"	"	"	"	

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Dissolved Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K30004 **Water Preparation Method: EPA 3005A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K30004-BLK1)								Extracted: 11/30/06 08:40						
Iron	EPA 6010B - Diss	ND	---	0.150	mg/l	1x	--	--	--	--	--	--	11/30/06 10:32	
Manganese	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (6K30004-BS1)								Extracted: 11/30/06 08:40						
Manganese	EPA 6010B - Diss	5.30	---	0.0100	mg/l	1x	--	5.00	106%	(80-120)	--	--	11/30/06 10:37	
Iron	"	4.98	---	0.150	"	"	--	"	99.6%	"	--	--	"	
Duplicate (6K30004-DUP1)					QC Source: BPK0625-01			Extracted: 11/30/06 08:40						
Manganese	EPA 6010B - Diss	0.0106	---	0.0100	mg/l	1x	0.0106	--	--	--	0.00%	(20)	11/30/06 10:48	
Iron	"	ND	---	0.150	"	"	ND	--	--	--	6.36%	"	"	
Matrix Spike (6K30004-MS1)					QC Source: BPK0625-01			Extracted: 11/30/06 08:40						
Iron	EPA 6010B - Diss	5.28	---	0.150	mg/l	1x	0.0730	5.00	104%	(75-126)	--	--	11/30/06 10:42	
Manganese	"	5.57	---	0.0100	"	"	0.0106	"	111%	(80-120)	--	--	"	

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Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K30032 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K30032-BLK1)									Extracted: 11/30/06 10:36					
Bromochloromethane	EPA 8260B	ND	---	0.200	ug/l	1x	--	--	--	--	--	--	11/30/06 13:25	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 89.0%*			*Limits: 70-130%*	"							*11/30/06 13:25*	
Toluene-d8		*109%*			*70-130%*	"							"	
4-BFB		*105%*			*70-130%*	"							"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K30032 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6K30032-BS1)								Extracted: 11/30/06 10:36						
Chlorobenzene	EPA 8260B	19.8	---	0.200	ug/l	1x	--	20.0	99.0%	(79-120)	--	--	11/30/06 12:15	
1,1-Dichloroethene	"	19.1	---	0.200	"	"	--	"	95.5%	(80-120)	--	--	"	
Trichloroethene	"	22.3	---	0.200	"	"	--	"	112%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 88.0%*			*Limits: 70-130%*	"							*11/30/06 12:15*	
Toluene-d8		*110%*			*70-130%*	"							"	
4-BFB		*106%*			*70-130%*	"							"	
LCS Dup (6K30032-BSD1)								Extracted: 11/30/06 10:36						
Chlorobenzene	EPA 8260B	20.7	---	0.200	ug/l	1x	--	20.0	104%	(79-120)	4.44%	(20)	11/30/06 12:54	
1,1-Dichloroethene	"	19.0	---	0.200	"	"	--	"	95.0%	(80-120)	0.525%	"	"	
Trichloroethene	"	22.6	---	0.200	"	"	--	"	113%	"	1.34%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 86.5%*			*Limits: 70-130%*	"							*11/30/06 12:54*	
Toluene-d8		*109%*			*70-130%*	"							"	
4-BFB		*106%*			*70-130%*	"							"	

QC Batch: 6L01070 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L01070-BLK1)								Extracted: 12/01/06 12:29						
Bromochloromethane	EPA 8260B	ND	---	0.200	ug/l	1x	--	--	--	--	--	--	12/01/06 16:48	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6L01070 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L01070-BLK1)								Extracted: 12/01/06 12:29						
cis-1,3-Dichloropropene	EPA 8260B	ND	---	0.200	ug/l	1x	--	--	--	--	--	--	12/01/06 16:48	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 100%*			*Limits: 70-130%*	"							*12/01/06 16:48*	
Toluene-d8		*101%*			*70-130%*	"							"	
4-BFB		*102%*			*70-130%*	"							"	
LCS (6L01070-BS1)								Extracted: 12/01/06 12:29						
Chlorobenzene	EPA 8260B	19.9	---	0.200	ug/l	1x	--	20.0	99.5%	(79-120)	--	--	12/01/06 15:39	
1,1-Dichloroethene	"	19.8	---	0.200	"	"	--	"	99.0%	(80-120)	--	--	"	
Trichloroethene	"	20.1	---	0.200	"	"	--	"	100%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 97.5%*			*Limits: 70-130%*	"							*12/01/06 15:39*	
Toluene-d8		*100%*			*70-130%*	"							"	
4-BFB		*103%*			*70-130%*	"							"	
LCS Dup (6L01070-BSD1)								Extracted: 12/01/06 12:29						
Chlorobenzene	EPA 8260B	18.6	---	0.200	ug/l	1x	--	20.0	93.0%	(79-120)	6.75%	(20)	12/01/06 16:16	
1,1-Dichloroethene	"	16.2	---	0.200	"	"	--	"	81.0%	(80-120)	20.0%	"	"	
Trichloroethene	"	18.2	---	0.200	"	"	--	"	91.0%	"	9.92%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 96.0%*			*Limits: 70-130%*	"							*12/01/06 16:16*	
Toluene-d8		*102%*			*70-130%*	"							"	
4-BFB		*104%*			*70-130%*	"							"	
Matrix Spike (6L01070-MS1)					QC Source: BPK0582-01RE1			Extracted: 12/01/06 12:29						
Chlorobenzene	EPA 8260B	772	---	8.00	ug/l	40x	ND	800	96.5%	(75-125)	--	--	12/01/06 20:54	
1,1-Dichloroethene	"	846	---	8.00	"	"	ND	"	106%	"	--	--	"	
Trichloroethene	"	809	---	8.00	"	"	ND	"	101%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 102%*			*Limits: 70-130%*	*1x*							*12/01/06 20:54*	
Toluene-d8		*99.5%*			*70-130%*	"							"	
4-BFB		*98.0%*			*70-130%*	"							"	

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6L01070 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (6L01070-MSD1)				QC Source: BPK0582-01RE1			Extracted: 12/01/06 12:29							
Chlorobenzene	EPA 8260B	710	---	8.00	ug/l	40x	ND	800	88.8%	(75-125)	8.37%	(20)	12/01/06 21:20	
1,1-Dichloroethene	"	747	---	8.00	"	"	ND	"	93.4%	"	12.4%	(30)	"	
Trichloroethene	"	733	---	8.00	"	"	ND	"	91.6%	"	9.86%	(20)	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 103%*		*Limits: 70-130%*		*1x*							*12/01/06 21:20*	
Toluene-d8		*100%*		*70-130%*		*"*							*"*	
4-BFB		*98.5%*		*70-130%*		*"*							*"*	

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K22038 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K22038-BLK1)								Extracted: 11/22/06 11:00						
Total Organic Carbon	EPA 415.1	ND	---	2.00	mg/l	1x	--	--	--	--	--	--	11/22/06 11:45	
LCS (6K22038-BS1)								Extracted: 11/22/06 11:00						
Total Organic Carbon	EPA 415.1	26.2	---	2.00	mg/l	1x	--	25.2	104%	(90-110)	--	--	11/22/06 11:54	
Duplicate (6K22038-DUP1)				QC Source: BPK0563-01				Extracted: 11/22/06 11:00						
Total Organic Carbon	EPA 415.1	4.95	---	2.00	mg/l	1x	5.28	--	--	--	6.45%	(25)	11/22/06 12:12	
Matrix Spike (6K22038-MS1)				QC Source: BPK0563-01				Extracted: 11/22/06 11:00						
Total Organic Carbon	EPA 415.1	34.0	---	2.00	mg/l	1x	5.28	25.2	114%	(60-140)	--	--	11/22/06 12:22	

TestAmerica - Seattle, WA

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Anions by EPA Method 300.0 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K22028 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K22028-BLK1)							Extracted: 11/22/06 10:00							
Sulfate	EPA 300.0	ND	---	0.400	mg/l	1x	--	--	--	--	--	--	11/22/06 10:33	
Nitrite-Nitrogen	"	ND	---	0.200	mg/l as N	"	--	--	--	--	--	--	"	
LCS (6K22028-BS1)							Extracted: 11/22/06 10:00							
Sulfate	EPA 300.0	6.10	---	0.400	mg/l	1x	--	6.00	102%	(90-110)	--	--	11/22/06 10:49	
Nitrite-Nitrogen	"	1.07	---	0.200	mg/l as N	"	--	1.00	107%	"	--	--	"	
Duplicate (6K22028-DUP1)					QC Source: BPK0625-01		Extracted: 11/22/06 10:00							
Sulfate	EPA 300.0	9.81	---	0.400	mg/l	1x	10.6	--	--	--	7.74%	(25)	11/22/06 11:20	
Nitrite-Nitrogen	"	ND	---	0.200	mg/l as N	"	ND	--	--	--	NR	"	"	
Matrix Spike (6K22028-MS1)					QC Source: BPK0625-01		Extracted: 11/22/06 10:00							
Sulfate	EPA 300.0	15.5	---	0.400	mg/l	1x	10.6	6.00	81.7%	(54-124)	--	--	11/22/06 11:36	
Nitrite-Nitrogen	"	1.09	---	0.200	mg/l as N	"	ND	1.00	109%	(69-137)	--	--	"	

TestAmerica - Seattle, WA

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PH: (425) 420.9200 FAX: (425) 420.9210

ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Hydrocarbons by GC/FID Headspace - Laboratory Quality Control Results

TestAmerica - Anchorage, AK

QC Batch: 6120002 **Water Preparation Method: RSK**

Analyte	Method	Result	MDL^A	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6120002-BLK1)								Extracted: 12/01/06 11:22						
Methane	RSK 175	ND	---	1.20	ug/l	1x	--	--	--	--	--	--	12/01/06 12:00	
Ethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Ethene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
LCS (6120002-BS1)								Extracted: 12/01/06 11:22						
Methane	RSK 175	62.2	---	1.20	ug/l	1x	--	55.8	111%	(80-120)	--	--	12/01/06 12:00	
Ethane	"	128	---	10.0	"	"	--	112	114%	"	--	--	"	
Ethene	"	151	---	10.0	"	"	--	134	113%	"	--	--	"	
LCS Dup (6120002-BSD1)								Extracted: 12/01/06 11:22						
Methane	RSK 175	50.1	---	1.20	ug/l	1x	--	55.8	89.8%	(80-120)	21.5%	(25)	12/01/06 12:00	
Ethane	"	103	---	10.0	"	"	--	112	92.0%	"	21.6%	"	"	
Ethene	"	122	---	10.0	"	"	--	134	91.0%	"	21.2%	"	"	
Duplicate (6120002-DUP1)					QC Source: BPK0625-01			Extracted: 12/01/06 11:22						
Methane	RSK 175	151	---	1.20	ug/l	1x	194	--	--	--	24.9%	(35)	12/01/06 12:00	
Ethane	"	ND	---	10.0	"	"	ND	--	--	--	NR	"	"	
Ethene	"	ND	---	10.0	"	"	ND	--	--	--	NR	"	"	

TestAmerica - Seattle, WA

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	12/05/06 17:32

Notes and Definitions

Report Specific Notes:

E-01 - Estimated value. The reported value exceeds the capacity of the detector and therefore is unreliable.

Laboratory Reporting Conventions:

DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.

ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).

NR/NA - Not Reported / Not Available

dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.

wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.

RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).

MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.

MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.

Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
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2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

BPH0625

CHAIN OF CUSTODY REPORT

Work Order #: 48167

CLIENT: ERM	INVOICE TO: ERM
REPORT TO: Jennifer Borcelt	
ADDRESS: 915 - 118th Ave SE #130 Bellevue WA 98005	
PHONE: 425-462-8591 FAX: 425-455-3573	P.O. NUMBER: 48167
PROJECT NAME: Sunshine Square	
PROJECT NUMBER: 48167	
SAMPLED BY: BDM	

TURNAROUND REQUEST

In Business Days *

Organic & Inorganic Analyses: [10] STD. [7] [5] [4] [3] [2] [1] [<1]

Petroleum Hydrocarbon Analyses: [5] STD. [4] [3] [2] [1] [<1]

[OTHER] Specify:

* *Turnaround Requests less than standard may incur Rush Charges.*

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES: HVOCs by 8260	Dissolved Fe, Mn	Sulfate	Nitrite	TOC	Methane, Ethane, Ethene RSK-175	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	TA WO ID
1	MW-4-112006	11/20/06 1520		X	X	X	X	X	X	W	9		01
2	MW-10-112006	1430		↓	↓	↓	↓	↓	↓	W	9		02
3	MW-11-112006	1330		↓	↓	↓	↓	↓	↓	W	9		03
4													
5													
6													
7													
8													
9													
10													

RELEASED BY: Brian Magee	DATE: 11/22/06	RECEIVED BY: Cathy Gamble	DATE: 11/24/06
PRINT NAME:	FIRM: ERM TIME: 745	PRINT NAME: Cathy Gamble	FIRM: TA TIME: 7:45
RELEASED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	FIRM: TIME:	PRINT NAME:	FIRM: TIME:

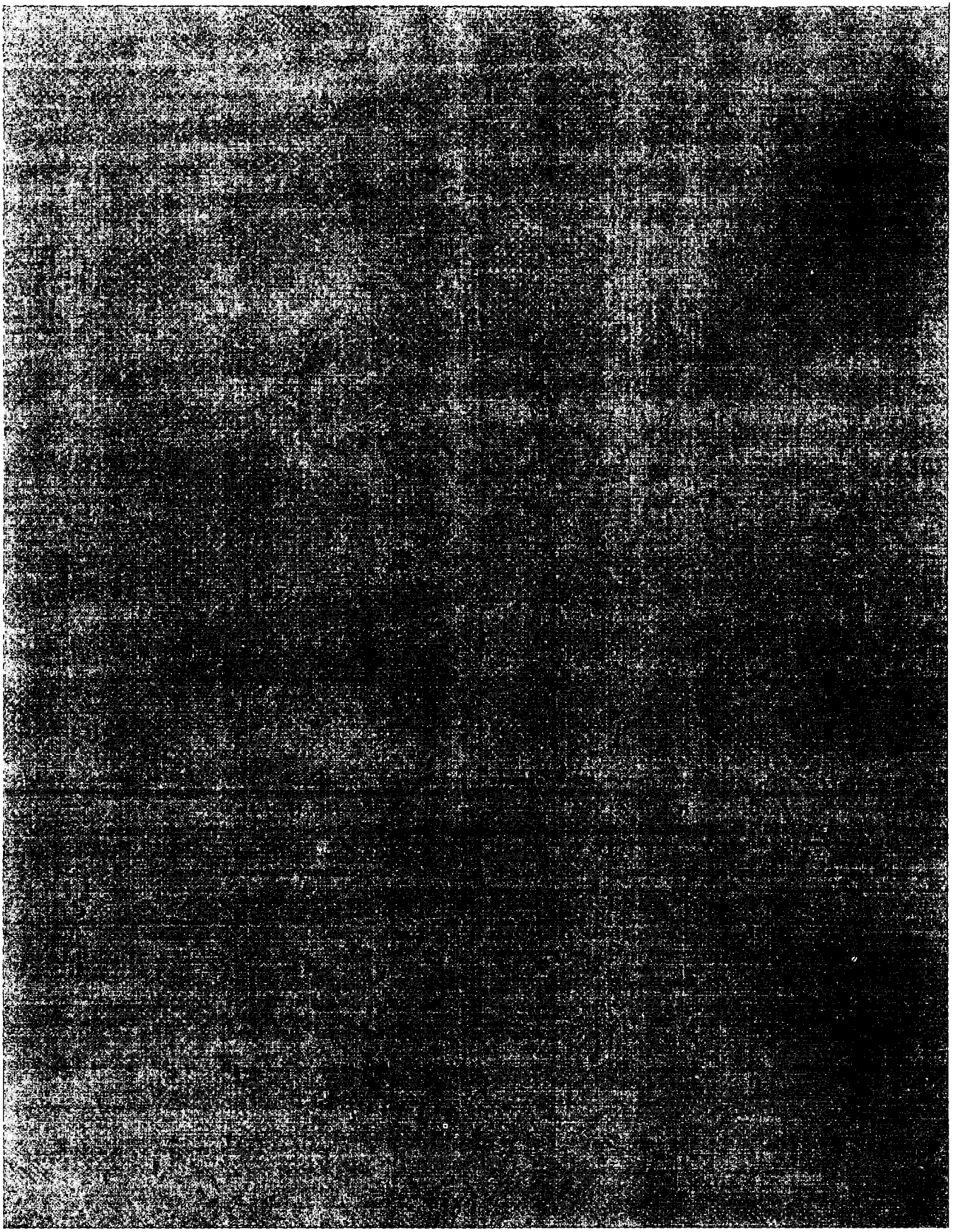
ADDITIONAL REMARKS:

TEMP: 4.9 w/c

CHC REV 01/2006

PAGE OF

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project.
Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.



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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

January 30, 2007

Jennifer Barrett
ERM-Bellevue
915-118th Avenue S.E., Suite 130
Bellevue, WA 98005

RE: Snohomish Square

Enclosed are the results of analyses for samples received by the laboratory on 01/18/07 15:25. The following list is a summary of the Work Orders contained in this report, generated on 01/30/07 15:06.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
BQA0248	Snohomish Square	48167

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4-011707	BQA0248-01	Water	01/17/07 13:40	01/18/07 15:25
MW-10-011707	BQA0248-02	Water	01/17/07 14:20	01/18/07 15:25
MW-11-011707	BQA0248-03	Water	01/17/07 13:15	01/18/07 15:25

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Kate Haney

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Dissolved Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQA0248-01 (MW-4-011707)		**Water**				**Sampled: 01/17/07 13:40**				**P7**
Iron	EPA 6010B - Diss	4.26	—	0.150	mg/l	1x	7A22046	01/22/07 14:33	01/22/07 15:58	
Manganese	"	1.74	—	0.0100	"	"	"	"	"	
BQA0248-02 (MW-10-011707)		**Water**				**Sampled: 01/17/07 14:20**				**P7**
Iron	EPA 6010B - Diss	ND	—	0.150	mg/l	1x	7A22046	01/22/07 14:33	01/22/07 16:03	
Manganese	"	0.131	—	0.0100	"	"	"	"	"	
BQA0248-03 (MW-11-011707)		**Water**				**Sampled: 01/17/07 13:15**				**P7**
Iron	EPA 6010B - Diss	ND	—	0.150	mg/l	1x	7A22046	01/22/07 14:33	01/22/07 16:08	
Manganese	"	0.213	—	0.0100	"	"	"	"	"	

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Kate Haney

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL^	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQA0248-01 (MW-4-011707)		**Water**			**Sampled: 01/17/07 13:40**					
Bromochloromethane	EPA 8260B	ND	—	0.200	ug/l	1x	7A18033	01/18/07 14:13	01/18/07 19:38	
Bromodichloromethane	"	ND	—	0.200	"	"	"	"	"	
Bromoform	"	ND	—	0.200	"	"	"	"	"	
Bromomethane	"	ND	—	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	—	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	—	0.200	"	"	"	"	"	
Chloroethane	"	ND	—	1.00	"	"	"	"	"	
Chloroform	"	**0.330**	—	0.200	"	"	"	"	"	
Chloromethane	"	ND	—	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	—	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	**4.26**	—	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	—	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
Methylene chloride	"	ND	—	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	—	0.500	"	"	"	"	"	
Tetrachloroethene	"	**127**	—	0.200	"	"	"	"	"	E
1,1,1-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
Trichloroethene	"	**275**	—	0.200	"	"	"	"	"	E
Trichlorofluoromethane	"	ND	—	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	—	0.200	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*114%*		*70 - 130 %*	"			"	
Toluene-d8			*91.0%*		*70 - 130 %*	"			"	
4-BFB			*102%*		*70 - 130 %*	"			"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQA0248-01RE1 (MW-4-011707)		**Water**			**Sampled: 01/17/07 13:40**					
Tetrachloroethene	EPA 8260B	**103**	—	8.00	ug/l	40x	7A19040	01/22/07 20:28	01/23/07 00:45	
Trichloroethene	"	**210**	—	8.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*106%*		*70 - 130 %*	*1x*			"	
Toluene-d8			*102%*		*70 - 130 %*	"			"	
4-BFB			*104%*		*70 - 130 %*	"			"	
BQA0248-02 (MW-10-011707)		**Water**			**Sampled: 01/17/07 14:20**					
Bromochloromethane	EPA 8260B	ND	—	0.200	ug/l	1x	7A18033	01/18/07 14:13	01/18/07 20:04	
Bromodichloromethane	"	ND	—	0.200	"	"	"	"	"	
Bromoform	"	ND	—	0.200	"	"	"	"	"	
Bromomethane	"	ND	—	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	—	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	—	0.200	"	"	"	"	"	
Chloroethane	"	ND	—	1.00	"	"	"	"	"	
Chloroform	"	ND	—	0.200	"	"	"	"	"	
Chloromethane	"	ND	—	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	—	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	**7.28**	—	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	**0.230**	—	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	—	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
Methylene chloride	"	ND	—	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	—	0.500	"	"	"	"	"	
Tetrachloroethene	"	**289**	—	0.200	"	"	"	"	"	E
1,1,1-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
Trichloroethene	"	**20.6**	—	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	—	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	—	0.200	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*116%*		*70 - 130 %*	"			"	
Toluene-d8			*91.5%*		*70 - 130 %*	"			"	
4-BFB			*105%*		*70 - 130 %*	"			"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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PH: (425) 420.9200 FAX: (425) 420.9210

ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQA0248-02RE1 (MW-10-011707)		**Water**			**Sampled: 01/17/07 14:20**					
Tetrachloroethene	EPA 8260B	**228**	—	8.00	ug/l	40x	7A19040	01/22/07 20:28	01/23/07 01:11	
Surrogate(s): 1,2-DCA-d4			*106%*		*70 - 130 %*	*1x*			"	
Toluene-d8			*102%*		*70 - 130 %*	"			"	
4-BFB			*106%*		*70 - 130 %*	"			"	
BQA0248-03 (MW-11-011707)		**Water**			**Sampled: 01/17/07 13:15**					
Bromochloromethane	EPA 8260B	ND	—	0.200	ug/l	1x	7A18033	01/18/07 14:13	01/18/07 20:29	
Bromodichloromethane	"	ND	—	0.200	"	"	"	"	"	
Bromoform	"	ND	—	0.200	"	"	"	"	"	
Bromomethane	"	ND	—	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	—	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	—	0.200	"	"	"	"	"	
Chloroethane	"	ND	—	1.00	"	"	"	"	"	
Chloroform	"	ND	—	0.200	"	"	"	"	"	
Chloromethane	"	ND	—	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	—	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	**18.0**	—	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	**0.880**	—	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	—	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
Methylene chloride	"	ND	—	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	—	0.500	"	"	"	"	"	
Tetrachloroethene	"	**470**	—	0.200	"	"	"	"	"	E
1,1,1-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
Trichloroethene	"	**286**	—	0.200	"	"	"	"	"	E
Trichlorofluoromethane	"	ND	—	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	—	0.200	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*116%*		*70 - 130 %*	"			"	
Toluene-d8			*93.5%*		*70 - 130 %*	"			"	
4-BFB			*106%*		*70 - 130 %*	"			"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQA0248-03RE1 (MW-11-011707)		**Water**			**Sampled: 01/17/07 13:15**					
Tetrachloroethene	EPA 8260B	**372**	—	8.00	ug/l	40x	7A19040	01/22/07 20:28	01/23/07 01:36	
Trichloroethene	"	**207**	—	8.00	"	"	"	"	"	
Surrogate(s): *1,2-DCA-d4*			*106%*		*70 - 130 %*	*1x*			"	
Toluene-d8			*102%*		*70 - 130 %*	"			"	
4-BFB			*106%*		*70 - 130 %*	"			"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Anions by EPA Method 300.0

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQA0248-01 (MW-4-011707)		**Water**				**Sampled: 01/17/07 13:40**				
Nitrite-Nitrogen	EPA 300.0	ND	—	0.200	mg/l as N	1x	7A19004	01/18/07 18:42	01/18/07 19:13	
Sulfate	"	**2.69**	—	0.400	mg/l	"	"	"	"	
BQA0248-02 (MW-10-011707)		**Water**				**Sampled: 01/17/07 14:20**				
Nitrite-Nitrogen	EPA 300.0	ND	—	0.200	mg/l as N	1x	7A19004	01/18/07 18:42	01/18/07 20:00	
Sulfate	"	**7.70**	—	0.400	mg/l	"	"	"	"	
BQA0248-03 (MW-11-011707)		**Water**				**Sampled: 01/17/07 13:15**				
Nitrite-Nitrogen	EPA 300.0	ND	—	0.200	mg/l as N	1x	7A19004	01/18/07 18:42	01/18/07 20:16	
Sulfate	"	**7.52**	—	0.400	mg/l	"	"	"	"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

General Chemistry Parameters
TestAmerica - Nashville, TN

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQA0248-01 (MW-4-011707)		**Water**				**Sampled: 01/17/07 13:40**				
Total Organic Carbon	EPA 415.1	**20.5**	---	1.00	mg/L	1x	7013648	01/24/07 12:30	01/29/07 01:00	
BQA0248-02 (MW-10-011707)		**Water**				**Sampled: 01/17/07 14:20**				
Total Organic Carbon	EPA 415.1	ND	---	1.00	mg/L	1x	7013648	01/24/07 12:30	01/29/07 01:00	
BQA0248-03 (MW-11-011707)		**Water**				**Sampled: 01/17/07 13:15**				
Total Organic Carbon	EPA 415.1	ND	---	1.00	mg/L	1x	7013648	01/24/07 12:30	01/29/07 01:00	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name: **Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number: 48167	Report Created:
Bellevue, WA 98005	Project Manager: Jennifer Barrett	01/30/07 15:06

Hydrocarbons by GC/FID Headspace

TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQA0248-01 (MW-4-011707)		**Water**				**Sampled: 01/17/07 13:40**				
Methane	RSK 175	**22.3**	—	1.20	ug/l	1x	7010041	01/25/07 10:00	01/25/07 11:30	
Ethane	"	ND	—	10.0	"	"	"	"	"	
Ethene	"	ND	—	10.0	"	"	"	"	"	
BQA0248-02 (MW-10-011707)		**Water**				**Sampled: 01/17/07 14:20**				
Methane	RSK 175	**2.91**	—	1.20	ug/l	1x	7010041	01/25/07 10:00	01/25/07 11:30	
Ethane	"	ND	—	10.0	"	"	"	"	"	
Ethene	"	ND	—	10.0	"	"	"	"	"	
BQA0248-03 (MW-11-011707)		**Water**				**Sampled: 01/17/07 13:15**				
Methane	RSK 175	**1.49**	—	1.20	ug/l	1x	7010041	01/25/07 10:00	01/25/07 11:30	
Ethane	"	ND	—	10.0	"	"	"	"	"	
Ethene	"	ND	—	10.0	"	"	"	"	"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Dissolved Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7A22046 **Water Preparation Method: EPA 3005A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7A22046-BLK1)								Extracted: 01/22/07 14:33						
Iron	EPA 6010B - Diss	ND	---	0.150	mg/l	1x	--	--	--	--	--	--	01/22/07 15:22	
Manganese	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (7A22046-BS1)								Extracted: 01/22/07 14:33						
Iron	EPA 6010B - Diss	5.04	---	0.150	mg/l	1x	--	5.00	101%	(80-120)	--	--	01/22/07 15:27	
Manganese	"	4.99	---	0.0100	"	"	--	"	99.8%	"	--	--	"	
Duplicate (7A22046-DUP1)					QC Source: BQA0242-01			Extracted: 01/22/07 14:33						
Manganese	EPA 6010B - Diss	ND	---	0.0100	mg/l	1x	ND	--	--	--	NR	(20)	01/22/07 15:43	
Iron	"	ND	---	0.150	"	"	ND	--	--	--	NR	"	"	
Matrix Spike (7A22046-MS1)					QC Source: BQA0242-01			Extracted: 01/22/07 14:33						
Manganese	EPA 6010B - Diss	5.06	---	0.0100	mg/l	1x	ND	5.00	101%	(80-120)	--	--	01/22/07 15:32	
Iron	"	5.14	---	0.150	"	"	ND	"	103%	(75-126)	--	--	"	
Matrix Spike (7A22046-MS2)					QC Source: BQA0242-02			Extracted: 01/22/07 14:33						
Manganese	EPA 6010B - Diss	5.10	---	0.0100	mg/l	1x	0.00370	5.00	102%	(80-120)	--	--	01/22/07 15:37	
Iron	"	5.18	---	0.150	"	"	ND	"	104%	(75-126)	--	--	"	

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Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7A18033 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7A18033-BLK1)								Extracted: 01/18/07 10:13						
Bromochloromethane	EPA 8260B	ND	---	0.200	ug/l	1x	--	--	--	--	--	--	01/18/07 14:28	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 112%*			*Limits: 70-130%*	"							*01/18/07 14:28*	
Toluene-d8		*96.0%*			*70-130%*	"							"	
4-BFB		*102%*			*70-130%*	"							"	

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Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7A18033 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7A18033-BS1)								Extracted: 01/18/07 10:13						
Chlorobenzene	EPA 8260B	17.3	---	0.200	ug/l	1x	--	20.0	86.5%	(79-120)	--	--	01/18/07 12:55	
1,1-Dichloroethene	"	19.4	---	0.200	"	"	--	"	97.0%	(80-120)	--	--	"	
Trichloroethene	"	19.2	---	0.200	"	"	--	"	96.0%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 112%*			*Limits: 70-130%*	"							*01/18/07 12:55*	
Toluene-d8		*94.5%*			*70-130%*	"							"	
4-BFB		*94.5%*			*70-130%*	"							"	
LCS Dup (7A18033-BSD1)								Extracted: 01/18/07 10:13						
Chlorobenzene	EPA 8260B	19.1	---	0.200	ug/l	1x	--	20.0	95.5%	(79-120)	9.89%	(20)	01/18/07 13:25	
1,1-Dichloroethene	"	22.6	---	0.200	"	"	--	"	113%	(80-120)	15.2%	"	"	
Trichloroethene	"	20.7	---	0.200	"	"	--	"	104%	"	7.52%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 108%*			*Limits: 70-130%*	"							*01/18/07 13:25*	
Toluene-d8		*96.0%*			*70-130%*	"							"	
4-BFB		*95.0%*			*70-130%*	"							"	
Matrix Spike (7A18033-MS1)							QC Source: BQA0210-01	Extracted: 01/18/07 10:13						
Chlorobenzene	EPA 8260B	20.6	---	0.200	ug/l	1x	ND	20.0	103%	(75-125)	--	--	01/18/07 18:45	
1,1-Dichloroethene	"	23.8	---	0.200	"	"	ND	"	119%	"	--	--	"	
Trichloroethene	"	22.2	---	0.200	"	"	ND	"	111%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 116%*			*Limits: 70-130%*	"							*01/18/07 18:45*	
Toluene-d8		*95.0%*			*70-130%*	"							"	
4-BFB		*93.0%*			*70-130%*	"							"	
Matrix Spike Dup (7A18033-MSD1)							QC Source: BQA0210-01	Extracted: 01/18/07 10:13						
Chlorobenzene	EPA 8260B	18.9	---	0.200	ug/l	1x	ND	20.0	94.5%	(75-125)	8.61%	(20)	01/18/07 19:10	
1,1-Dichloroethene	"	21.8	---	0.200	"	"	ND	"	109%	"	8.77%	(30)	"	
Trichloroethene	"	20.2	---	0.200	"	"	ND	"	101%	"	9.43%	(20)	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 114%*			*Limits: 70-130%*	"							*01/18/07 19:10*	
Toluene-d8		*95.0%*			*70-130%*	"							"	
4-BFB		*95.0%*			*70-130%*	"							"	

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Kate Haney

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7A19040 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7A19040-BLK1)							Extracted: 01/22/07 20:28							
Bromochloromethane	EPA 8260B	ND	---	0.200	ug/l	1x	--	--	--	--	--	--	01/22/07 23:29	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 103%*			*Limits: 70-130%*	"							*01/22/07 23:29*	
Toluene-d8		*101%*			*70-130%*	"							"	
4-BFB		*104%*			*70-130%*	"							"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7A19040 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7A19040-BS1)								Extracted: 01/22/07 20:28						
Chlorobenzene	EPA 8260B	20.2	---	0.200	ug/l	1x	--	20.0	101%	(79-120)	--	--	01/22/07 22:27	
1,1-Dichloroethene	"	20.2	---	0.200	"	"	--	"	101%	(80-120)	--	--	"	
Trichloroethene	"	20.2	---	0.200	"	"	--	"	101%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 100%*			*Limits: 70-130%*	"							*01/22/07 22:27*	
Toluene-d8		*101%*			*70-130%*	"							"	
4-BFB		*98.0%*			*70-130%*	"							"	
LCS Dup (7A19040-BSD1)								Extracted: 01/22/07 20:28						
Chlorobenzene	EPA 8260B	19.6	---	0.200	ug/l	1x	--	20.0	98.0%	(79-120)	3.02%	(20)	01/22/07 22:58	
1,1-Dichloroethene	"	19.1	---	0.200	"	"	--	"	95.5%	(80-120)	5.60%	"	"	
Trichloroethene	"	19.1	---	0.200	"	"	--	"	95.5%	"	5.60%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 99.5%*			*Limits: 70-130%*	"							*01/22/07 22:58*	
Toluene-d8		*101%*			*70-130%*	"							"	
4-BFB		*99.0%*			*70-130%*	"							"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Anions by EPA Method 300.0 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7A19004 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7A19004-BLK1)								Extracted: 01/18/07 18:42						
Sulfate	EPA 300.0	ND	---	0.400	mg/l	1x	--	--	--	--	--	--	01/18/07 18:42	
Nitrite-Nitrogen	"	ND	---	0.200	mg/l as N	"	--	--	--	--	--	--	"	
LCS (7A19004-BS1)								Extracted: 01/18/07 18:42						
Nitrite-Nitrogen	EPA 300.0	0.960	---	0.200	mg/l as N	1x	--	1.00	96.0%	(90-110)	--	--	01/18/07 18:58	
Sulfate	"	5.70	---	0.400	mg/l	"	--	6.00	95.0%	"	--	--	"	
Duplicate (7A19004-DUP1)					QC Source: BQA0248-01			Extracted: 01/18/07 18:42						
Sulfate	EPA 300.0	2.65	---	0.400	mg/l	1x	2.69	--	--	--	1.50%	(25)	01/18/07 19:29	
Nitrite-Nitrogen	"	ND	---	0.200	mg/l as N	"	ND	--	--	--	5.41%	"	"	R4
Matrix Spike (7A19004-MS1)					QC Source: BQA0248-01			Extracted: 01/18/07 18:42						
Nitrite-Nitrogen	EPA 300.0	1.03	---	0.200	mg/l as N	1x	0.190	1.00	84.0%	(69-137)	--	--	01/18/07 19:45	
Sulfate	"	8.44	---	0.400	mg/l	"	2.69	6.00	95.8%	(54-124)	--	--	"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

General Chemistry Parameters - Laboratory Quality Control Results

TestAmerica - Nashville, TN

QC Batch: 7013648 **Water Preparation Method: NO PREP**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7013648-BLK1)							Extracted: 01/24/07 12:30							
Total Organic Carbon	EPA 415.1	ND	---	1.00	mg/L	1x	--	--	--	--	--	--	01/29/07 01:00	
LCS (7013648-BS1)							Extracted: 01/24/07 12:30							
Total Organic Carbon	EPA 415.1	198	---		ug/mL	1x	--	200	99%	(87-110)	--	--	01/29/07 01:00	
Duplicate (7013648-DUP1)				QC Source: BQA0248-03			Extracted: 01/24/07 12:30							R4
Total Organic Carbon	EPA 415.1	ND	---	1.00	mg/L	1x	ND	--	--	--	35%	(20)	01/29/07 01:00	
Matrix Spike (7013648-MS1)				QC Source: BQA0248-01			Extracted: 01/24/07 12:30							
Total Organic Carbon	EPA 415.1	38.0	---		ug/mL	1x	20.5	20.0	88%	(75-127)	--	--	01/29/07 01:00	
Matrix Spike Dup (7013648-MSD1)				QC Source: BQA0248-01			Extracted: 01/24/07 12:30							
Total Organic Carbon	EPA 415.1	36.7	---		ug/mL	1x	20.5	20.0	81%	(75-127)	3%	(20)	01/29/07 01:00	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Hydrocarbons by GC/FID Headspace - Laboratory Quality Control Results

TestAmerica - Anchorage, AK

QC Batch: 7010041 **Water Preparation Method: RSK**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7010041-BLK1)								**Extracted: 01/25/07 10:00**						
Methane	RSK 175	ND	---	1.20	ug/l	1x	--	--	--	--	--	--	01/25/07 11:30	
Ethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Ethene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
LCS (7010041-BS1)								**Extracted: 01/25/07 10:00**						
Methane	RSK 175	51.4	---	1.20	ug/l	1x	--	55.8	92.1%	(80-120)	--	--	01/25/07 11:30	
Ethane	"	110	---	10.0	"	"	--	112	98.2%	"	--	--	"	
Ethene	"	132	---	10.0	"	"	--	134	98.5%	"	--	--	"	
LCS Dup (7010041-BSD1)								**Extracted: 01/25/07 10:00**						
Methane	RSK 175	53.0	---	1.20	ug/l	1x	--	55.8	95.0%	(80-120)	3.07%	(25)	01/25/07 11:30	
Ethane	"	113	---	10.0	"	"	--	112	101%	"	2.69%	"	"	
Ethene	"	136	---	10.0	"	"	--	134	101%	"	2.99%	"	"	
Duplicate (7010041-DUP1)					**QC Source: BQA0248-01**			**Extracted: 01/25/07 10:00**						
Methane	RSK 175	1.77	---	1.20	ug/l	1x	22.3	--	--	--	171%	(35)	01/25/07 11:30	R2
Ethane	"	ND	---	10.0	"	"	ND	--	--	--	189%	"	"	R4
Ethene	"	ND	---	10.0	"	"	ND	--	--	--	132%	"	"	R4

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167	Report Created:
Bellevue, WA 98005	Project Manager:	Jennifer Barrett	01/30/07 15:06

Notes and Definitions

Report Specific Notes:

E	-	Concentration exceeds the calibration range and therefore result is semi-quantitative.
P7	-	Sample filtered in lab.
R2	-	The RPD exceeded the acceptance limit.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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March 29, 2007

Brian Magee
ERM-Bellevue
915-118th Avenue S.E., Suite 130
Bellevue, WA 98005

RE: Snohomish Square

Enclosed are the results of analyses for samples received by the laboratory on 03/19/07 14:50. The following list is a summary of the Work Orders contained in this report, generated on 03/29/07 17:03.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
BQC0403	Snohomish Square	Snohomish Square

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4-031907	BQC0403-01	Water	03/19/07 14:20	03/19/07 14:50
MW-10-031907	BQC0403-02	Water	03/19/07 13:20	03/19/07 14:50
MW-11-031907	BQC0403-03	Water	03/19/07 12:10	03/19/07 14:50

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Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Dissolved Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQC0403-01 (MW-4-031907)		**Water**				**Sampled: 03/19/07 14:20**				
Iron	EPA 6010B - Diss	**13.8**	—	0.150	mg/l	1x	7C27040	03/27/07 15:09	03/27/07 15:57	
Manganese	"	**2.95**	—	0.0100	"	"	"	"	"	
BQC0403-02 (MW-10-031907)		**Water**				**Sampled: 03/19/07 13:20**				
Iron	EPA 6010B - Diss	ND	—	0.150	mg/l	1x	7C27040	03/27/07 15:09	03/27/07 16:03	
Manganese	"	**0.126**	—	0.0100	"	"	"	"	"	
BQC0403-03 (MW-11-031907)		**Water**				**Sampled: 03/19/07 12:10**				
Iron	EPA 6010B - Diss	ND	—	0.150	mg/l	1x	7C27040	03/27/07 15:09	03/27/07 16:10	
Manganese	"	**0.321**	—	0.0100	"	"	"	"	"	

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Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQC0403-01 (MW-4-031907)		**Water**			**Sampled: 03/19/07 14:20**					
Bromochloromethane	EPA 8260B	ND	----	1.00	ug/l	1x	7C22032	03/24/07 13:03	03/25/07 06:35	
Bromodichloromethane	"	ND	----	1.00	"	"	"	"	"	
Bromoform	"	ND	----	1.00	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.00	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	1.00	"	"	"	"	"	
Chloromethane	"	ND	----	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	**196**	----	1.00	"	"	"	"	"	E
trans-1,2-Dichloroethene	"	**1.64**	----	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	**7.50**	----	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	**16.6**	----	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	**5.48**	----	0.200	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*96.0%*		*70 - 130 %*	"			"	
Toluene-d8			*102%*		*75 - 125 %*	"			"	
4-BFB			*98.5%*		*75 - 125 %*	"			"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQC0403-01RE1 (MW-4-031907)		**Water**			**Sampled: 03/19/07 14:20**					
cis-1,2-Dichloroethene	EPA 8260B	**182**	—	5.00	ug/l	5x	7C27020	03/27/07 11:46	03/27/07 14:13	
Surrogate(s): 1,2-DCA-d4			*91.5%*		*70 - 130 %*	*1x*			"	
Toluene-d8			*100%*		*75 - 125 %*	"			"	
4-BFB			*102%*		*75 - 125 %*	"			"	
BQC0403-02 (MW-10-031907)		**Water**			**Sampled: 03/19/07 13:20**					
Bromochloromethane	EPA 8260B	ND	—	1.00	ug/l	1x	7C22032	03/24/07 13:03	03/25/07 07:20	
Bromodichloromethane	"	ND	—	1.00	"	"	"	"	"	
Bromoform	"	ND	—	1.00	"	"	"	"	"	
Bromomethane	"	ND	—	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	—	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	—	1.00	"	"	"	"	"	
Chloroethane	"	ND	—	1.00	"	"	"	"	"	
Chloroform	"	ND	—	1.00	"	"	"	"	"	
Chloromethane	"	ND	—	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	—	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	—	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	—	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	—	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	**10.6**	—	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	—	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	—	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	—	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	—	1.00	"	"	"	"	"	
Methylene chloride	"	ND	—	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	—	1.00	"	"	"	"	"	
Tetrachloroethene	"	**244**	—	0.200	"	"	"	"	"	E
1,1,1-Trichloroethane	"	ND	—	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	1.00	"	"	"	"	"	
Trichloroethene	"	**15.5**	—	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	—	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	—	0.200	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*95.5%*		*70 - 130 %*	"			"	
Toluene-d8			*100%*		*75 - 125 %*	"			"	
4-BFB			*101%*		*75 - 125 %*	"			"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQC0403-02RE1 (MW-10-031907)		**Water**			**Sampled: 03/19/07 13:20**					
Tetrachloroethene	EPA 8260B	**287**	—	1.00	ug/l	5x	7C27020	03/27/07 11:46	03/27/07 14:43	
Surrogate(s): 1,2-DCA-d4			*92.0%*		*70 - 130 %*	*1x*			"	
Toluene-d8			*101%*		*75 - 125 %*	"			"	
4-BFB			*102%*		*75 - 125 %*	"			"	
BQC0403-03 (MW-11-031907)		**Water**			**Sampled: 03/19/07 12:10**					
Bromochloromethane	EPA 8260B	ND	—	1.00	ug/l	1x	7C22032	03/24/07 13:03	03/25/07 07:50	
Bromodichloromethane	"	ND	—	1.00	"	"	"	"	"	
Bromoform	"	ND	—	1.00	"	"	"	"	"	
Bromomethane	"	ND	—	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	—	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	—	1.00	"	"	"	"	"	
Chloroethane	"	ND	—	1.00	"	"	"	"	"	
Chloroform	"	ND	—	1.00	"	"	"	"	"	
Chloromethane	"	ND	—	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	—	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	—	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	—	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	—	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	**153**	—	1.00	"	"	"	"	"	E
trans-1,2-Dichloroethene	"	**1.25**	—	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	—	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	—	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	—	1.00	"	"	"	"	"	
Methylene chloride	"	ND	—	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	—	1.00	"	"	"	"	"	
Tetrachloroethene	"	**286**	—	0.200	"	"	"	"	"	E
1,1,1-Trichloroethane	"	ND	—	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	1.00	"	"	"	"	"	
Trichloroethene	"	**26.4**	—	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	—	1.00	"	"	"	"	"	
Vinyl chloride	"	**0.780**	—	0.200	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*95.5%*		*70 - 130 %*	"			"	
Toluene-d8			*101%*		*75 - 125 %*	"			"	
4-BFB			*100%*		*75 - 125 %*	"			"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQC0403-03RE1 (MW-11-031907)		**Water**			**Sampled: 03/19/07 12:10**					
cis-1,2-Dichloroethene	EPA 8260B	**149**	—	5.00	ug/l	5x	7C27020	03/27/07 11:46	03/27/07 15:13	
Tetrachloroethene	"	**326**	—	1.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*92.0%*		*70 - 130 %*	*1x*			"	
Toluene-d8			*101%*		*75 - 125 %*	"			"	
4-BFB			*103%*		*75 - 125 %*	"			"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQC0403-01 (MW-4-031907)		**Water**			**Sampled: 03/19/07 14:20**					
Total Organic Carbon	EPA 415.1	**102**	---	4.00	mg/l	2x	7C21028	03/21/07 11:25	03/22/07 09:16	
BQC0403-02 (MW-10-031907)		**Water**			**Sampled: 03/19/07 13:20**					
Total Organic Carbon	EPA 415.1	**3.69**	---	2.00	mg/l	1x	7C21028	03/21/07 11:25	03/21/07 14:12	
BQC0403-03 (MW-11-031907)		**Water**			**Sampled: 03/19/07 12:10**					
Total Organic Carbon	EPA 415.1	**4.00**	---	2.00	mg/l	1x	7C21028	03/21/07 11:25	03/21/07 14:49	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Anions by EPA Method 300.0

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQC0403-01 (MW-4-031907)		**Water**			**Sampled: 03/19/07 14:20**					
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	7C20014	03/20/07 09:29	03/20/07 16:13	
Sulfate	"	**1.50**	---	0.400	mg/l	"	"	"	"	
BQC0403-02 (MW-10-031907)		**Water**			**Sampled: 03/19/07 13:20**					
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	7C20014	03/20/07 09:29	03/20/07 17:00	
Sulfate	"	**8.16**	---	0.400	mg/l	"	"	"	"	
BQC0403-03 (MW-11-031907)		**Water**			**Sampled: 03/19/07 12:10**					
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	7C20014	03/20/07 09:29	03/20/07 17:16	
Sulfate	"	**6.18**	---	0.400	mg/l	"	"	"	"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Hydrocarbons by GC/FID Headspace

TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQC0403-01 (MW-4-031907)		**Water**			**Sampled: 03/19/07 14:20**					
Methane	RSK 175	**261**	—	1.20	ug/l	1x	7030037	03/28/07 08:51	03/28/07 08:51	
Ethane	"	ND	—	10.0	"	"	"	"	"	
Ethene	"	ND	—	10.0	"	"	"	"	"	
BQC0403-02 (MW-10-031907)		**Water**			**Sampled: 03/19/07 13:20**					
Methane	RSK 175	ND	—	1.20	ug/l	1x	7030037	03/28/07 08:51	03/28/07 08:51	
Ethane	"	ND	—	10.0	"	"	"	"	"	
Ethene	"	ND	—	10.0	"	"	"	"	"	
BQC0403-03 (MW-11-031907)		**Water**			**Sampled: 03/19/07 12:10**					
Methane	RSK 175	**5.31**	—	1.20	ug/l	1x	7030037	03/28/07 08:51	03/28/07 08:51	
Ethane	"	ND	—	10.0	"	"	"	"	"	
Ethene	"	ND	—	10.0	"	"	"	"	"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Dissolved Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7C27040 **Water Preparation Method: EPA 3005A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7C27040-BLK1)							Extracted: 03/27/07 15:09							
Manganese	EPA 6010B - Diss	ND	---	0.0100	mg/l	1x	--	--	--	--	--	--	03/27/07 15:31	
Iron	"	ND	---	0.150	"	"	--	--	--	--	--	--	"	
LCS (7C27040-BS1)							Extracted: 03/27/07 15:09							
Manganese	EPA 6010B - Diss	4.96	---	0.0100	mg/l	1x	--	5.00	99.2%	(80-120)	--	--	03/27/07 15:37	
Iron	"	5.54	---	0.150	"	"	--	"	111%	"	--	--	"	
Duplicate (7C27040-DUP1)					QC Source: BQC0403-01		Extracted: 03/27/07 15:09							
Iron	EPA 6010B - Diss	13.7	---	0.150	mg/l	1x	13.8	--	--	--	0.727%	(20)	03/27/07 15:50	
Manganese	"	2.93	---	0.0100	"	"	2.95	--	--	--	0.680%	"	"	
Matrix Spike (7C27040-MS1)					QC Source: BQC0403-01		Extracted: 03/27/07 15:09							
Manganese	EPA 6010B - Diss	7.93	---	0.0100	mg/l	1x	2.95	5.00	99.6%	(80-120)	--	--	03/27/07 15:44	
Iron	"	19.2	---	0.150	"	"	13.8	"	108%	(75-126)	--	--	"	

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Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7C22032 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7C22032-BLK1)								Extracted: 03/24/07 13:03						
Bromochloromethane	EPA 8260B	ND	---	1.00	ug/l	1x	--	--	--	--	--	--	03/25/07 03:07	
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 89.0%*			*Limits: 70-130%*	"							*03/25/07 03:07*	
Toluene-d8		*102%*			*75-125%*	"							"	
4-BFB		*99.5%*			*75-125%*	"							"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7C22032 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7C22032-BS1)								Extracted: 03/24/07 13:03						
Chlorobenzene	EPA 8260B	19.4	---	1.00	ug/l	1x	--	20.0	97.0%	(80-120)	--	--	03/25/07 02:07	
1,1-Dichloroethene	"	19.5	---	1.00	"	"	--	"	97.5%	(75-125)	--	--	"	
Trichloroethene	"	18.9	---	0.200	"	"	--	"	94.5%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 91.5%*			*Limits: 70-130%*	"							*03/25/07 02:07*	
Toluene-d8		*102%*			*75-125%*	"							"	
4-BFB		*98.5%*			*75-125%*	"							"	
LCS Dup (7C22032-BSD1)								Extracted: 03/24/07 13:03						
Chlorobenzene	EPA 8260B	18.5	---	1.00	ug/l	1x	--	20.0	92.5%	(80-120)	4.75%	(20)	03/25/07 02:37	
1,1-Dichloroethene	"	18.7	---	1.00	"	"	--	"	93.5%	(75-125)	4.19%	"	"	
Trichloroethene	"	18.2	---	0.200	"	"	--	"	91.0%	"	3.77%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 90.0%*			*Limits: 70-130%*	"							*03/25/07 02:37*	
Toluene-d8		*98.0%*			*75-125%*	"							"	
4-BFB		*98.0%*			*75-125%*	"							"	

QC Batch: 7C27020 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7C27020-BLK1)								Extracted: 03/27/07 11:46						
Bromochloromethane	EPA 8260B	ND	---	1.00	ug/l	1x	--	--	--	--	--	--	03/27/07 13:44	
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7C27020 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7C27020-BLK1)								Extracted: 03/27/07 11:46						
cis-1,3-Dichloropropene	EPA 8260B	ND	---	1.00	ug/l	1x	--	--	--	--	--	--	03/27/07 13:44	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 88.0%*			*Limits: 70-130%*	"							*03/27/07 13:44*	
Toluene-d8		*103%*			*75-125%*	"							"	
4-BFB		*103%*			*75-125%*	"							"	
LCS (7C27020-BS1)								Extracted: 03/27/07 11:46						
Chlorobenzene	EPA 8260B	19.1	---	1.00	ug/l	1x	--	20.0	95.5%	(80-120)	--	--	03/27/07 11:57	
1,1-Dichloroethene	"	18.1	---	1.00	"	"	--	"	90.5%	(75-125)	--	--	"	
Trichloroethene	"	18.4	---	0.200	"	"	--	"	92.0%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 90.5%*			*Limits: 70-130%*	"							*03/27/07 11:57*	
Toluene-d8		*95.0%*			*75-125%*	"							"	
4-BFB		*100%*			*75-125%*	"							"	
LCS Dup (7C27020-BSD1)								Extracted: 03/27/07 11:46						
Chlorobenzene	EPA 8260B	18.1	---	1.00	ug/l	1x	--	20.0	90.5%	(80-120)	5.38%	(20)	03/27/07 12:36	
1,1-Dichloroethene	"	17.2	---	1.00	"	"	--	"	86.0%	(75-125)	5.10%	"	"	
Trichloroethene	"	17.3	---	0.200	"	"	--	"	86.5%	"	6.16%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 90.0%*			*Limits: 70-130%*	"							*03/27/07 12:36*	
Toluene-d8		*97.5%*			*75-125%*	"							"	
4-BFB		*101%*			*75-125%*	"							"	

TestAmerica - Seattle, WA

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7C21028 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7C21028-BLK1)								Extracted: 03/21/07 11:25						
Total Organic Carbon	EPA 415.1	ND	---	2.00	mg/l	1x	--	--	--	--	--	--	03/21/07 12:43	
LCS (7C21028-BS1)								Extracted: 03/21/07 11:25						
Total Organic Carbon	EPA 415.1	26.4	---	2.00	mg/l	1x	--	25.0	106%	(90-110)	--	--	03/21/07 12:54	
Duplicate (7C21028-DUP1)				QC Source: BQC0307-01				Extracted: 03/21/07 11:25						
Total Organic Carbon	EPA 415.1	3.06	---	2.00	mg/l	1x	4.63	--	--	--	40.8%	(25)	03/21/07 13:14	R2
Matrix Spike (7C21028-MS1)				QC Source: BQC0307-01				Extracted: 03/21/07 11:25						
Total Organic Carbon	EPA 415.1	29.7	---	2.00	mg/l	1x	4.63	25.0	100%	(60-140)	--	--	03/21/07 13:24	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Anions by EPA Method 300.0 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7C20014 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7C20014-BLK1)								Extracted: 03/20/07 09:29						
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	--	--	--	--	--	--	03/20/07 15:42	
Sulfate	"	ND	---	0.400	mg/l	"	--	--	--	--	--	--	"	
LCS (7C20014-BS1)								Extracted: 03/20/07 09:29						
Sulfate	EPA 300.0	5.86	---	0.400	mg/l	1x	--	6.00	97.7%	(90-110)	--	--	03/20/07 15:58	
Nitrite-Nitrogen	"	1.01	---	0.200	mg/l as N	"	--	1.00	101%	"	--	--	"	
Duplicate (7C20014-DUP1)					QC Source: BQC0403-01			Extracted: 03/20/07 09:29						
Sulfate	EPA 300.0	1.49	---	0.400	mg/l	1x	1.50	--	--	--	0.669%	(25)	03/20/07 16:29	
Nitrite-Nitrogen	"	ND	---	0.200	mg/l as N	"	ND	--	--	--	NR	"	"	
Matrix Spike (7C20014-MS1)					QC Source: BQC0403-01			Extracted: 03/20/07 09:29						
Nitrite-Nitrogen	EPA 300.0	1.04	---	0.200	mg/l as N	1x	ND	1.00	104%	(69-137)	--	--	03/20/07 16:45	
Sulfate	"	7.09	---	0.400	mg/l	"	1.50	6.00	93.2%	(54-124)	--	--	"	

TestAmerica - Seattle, WA

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Hydrocarbons by GC/FID Headspace - Laboratory Quality Control Results

TestAmerica - Anchorage, AK

QC Batch: 7030037 **Water Preparation Method: RSK**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7030037-BLK1)							Extracted: 03/28/07 08:51							
Methane	RSK 175	ND	---	1.20	ug/l	1x	--	--	--	--	--	--	03/28/07 08:51	
Ethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Ethene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
LCS (7030037-BS1)							Extracted: 03/28/07 08:51							
Methane	RSK 175	44.8	---	1.20	ug/l	1x	--	55.8	80.3%	(80-120)	--	--	03/28/07 08:51	
Ethane	"	98.1	---	10.0	"	"	--	112	87.6%	"	--	--	"	
Ethene	"	118	---	10.0	"	"	--	134	88.1%	"	--	--	"	
LCS Dup (7030037-BSD1)							Extracted: 03/28/07 08:51							
Methane	RSK 175	52.9	---	1.20	ug/l	1x	--	55.8	94.8%	(80-120)	16.6%	(25)	03/28/07 08:51	
Ethane	"	115	---	10.0	"	"	--	112	103%	"	15.9%	"	"	
Ethene	"	139	---	10.0	"	"	--	134	104%	"	16.3%	"	"	
Duplicate (7030037-DUP1)					QC Source: BQC0403-02		Extracted: 03/28/07 08:51							
Methane	RSK 175	ND	---	1.20	ug/l	1x	ND	--	--	--	17.9%	(35)	03/28/07 08:51	
Ethane	"	ND	---	10.0	"	"	ND	--	--	--	1.26%	(17)	"	
Ethene	"	ND	---	10.0	"	"	ND	--	--	--	2.49%	(16.2)	"	

TestAmerica - Seattle, WA

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	Snohomish Square	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	03/29/07 17:03

Notes and Definitions

Report Specific Notes:

E - Concentration exceeds the calibration range and therefore result is semi-quantitative.

R2 - The RPD exceeded the acceptance limit.

Laboratory Reporting Conventions:

DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.

ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).

NR/NA - Not Reported / Not Available

dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.

wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.

RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).

MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.

MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.

Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica - Seattle, WA

Kate Haney, Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

June 04, 2007

Brian Magee
ERM-Bellevue
915-118th Avenue S.E., Suite 130
Bellevue, WA 98005

RE: Snohomish Square

Enclosed are the results of analyses for samples received by the laboratory on 05/18/07 17:05. The following list is a summary of the Work Orders contained in this report, generated on 06/04/07 17:05.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
BQE0316	Snohomish Square	48167.01

TestAmerica - Seattle, WA

Kate Haney

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4-051807	BQE0316-01	Water	05/18/07 14:10	05/18/07 17:05
MW-10-051807	BQE0316-02	Water	05/18/07 13:30	05/18/07 17:05
MW-11-051807	BQE0316-03	Water	05/18/07 12:50	05/18/07 17:05

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Dissolved Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQE0316-01 (MW-4-051807)		**Water**			**Sampled: 05/18/07 14:10**					
Iron	EPA 6010B - Diss	**15.3**	—	0.150	mg/l	1x	7E21040	05/21/07 12:40	05/21/07 13:16	
Manganese	"	**3.26**	—	0.0100	"	"	"	"	"	
BQE0316-02 (MW-10-051807)		**Water**			**Sampled: 05/18/07 13:30**					
Iron	EPA 6010B - Diss	ND	—	0.150	mg/l	1x	7E21040	05/21/07 12:40	05/21/07 13:21	
Manganese	"	**0.0725**	—	0.0100	"	"	"	"	"	
BQE0316-03 (MW-11-051807)		**Water**			**Sampled: 05/18/07 12:50**					
Iron	EPA 6010B - Diss	**0.156**	—	0.150	mg/l	1x	7E21040	05/21/07 12:40	05/21/07 13:26	
Manganese	"	**0.855**	—	0.0100	"	"	"	"	"	

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQE0316-01 (MW-4-051807)		**Water**			**Sampled: 05/18/07 14:10**					
Bromochloromethane	EPA 8260B	ND	—	0.200	ug/l	1x	7E18030	05/18/07 19:51	05/18/07 20:27	
Bromodichloromethane	"	ND	—	0.200	"	"	"	"	"	
Bromoform	"	ND	—	0.200	"	"	"	"	"	
Bromomethane	"	ND	—	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	—	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	—	0.200	"	"	"	"	"	
Chloroethane	"	ND	—	1.00	"	"	"	"	"	
Chloroform	"	ND	—	0.200	"	"	"	"	"	
Chloromethane	"	ND	—	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	—	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	**159**	—	0.200	"	"	"	"	"	E
trans-1,2-Dichloroethene	"	**1.15**	—	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	—	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
Methylene chloride	"	ND	—	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	—	0.500	"	"	"	"	"	
Tetrachloroethene	"	**15.3**	—	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
Trichloroethene	"	**11.7**	—	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	—	0.500	"	"	"	"	"	
Vinyl chloride	"	**3.43**	—	0.200	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*110%*		*70 - 130 %*	"			"	
Toluene-d8			*99.5%*		*70 - 130 %*	"			"	
4-BFB			*102%*		*70 - 130 %*	"			"	

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQE0316-01RE1 (MW-4-051807)		**Water**			**Sampled: 05/18/07 14:10**					
cis-1,2-Dichloroethene	EPA 8260B	**156**	—	1.00	ug/l	5x	7E21060	05/21/07 14:08	05/21/07 19:14	
Surrogate(s): 1,2-DCA-d4			*110%*		*70 - 130 %*	*1x*			"	
Toluene-d8			*93.0%*		*70 - 130 %*	"			"	
4-BFB			*102%*		*70 - 130 %*	"			"	
BQE0316-02 (MW-10-051807)		**Water**			**Sampled: 05/18/07 13:30**					
Bromochloromethane	EPA 8260B	ND	—	0.200	ug/l	1x	7E18030	05/18/07 19:51	05/18/07 20:56	
Bromodichloromethane	"	ND	—	0.200	"	"	"	"	"	
Bromoform	"	ND	—	0.200	"	"	"	"	"	
Bromomethane	"	ND	—	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	—	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	—	0.200	"	"	"	"	"	
Chloroethane	"	ND	—	1.00	"	"	"	"	"	
Chloroform	"	ND	—	0.200	"	"	"	"	"	
Chloromethane	"	ND	—	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	—	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	**13.3**	—	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	**0.430**	—	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	—	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
Methylene chloride	"	ND	—	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	—	0.500	"	"	"	"	"	
Tetrachloroethene	"	**414**	—	0.200	"	"	"	"	"	E
1,1,1-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
Trichloroethene	"	**20.0**	—	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	—	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	—	0.200	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*112%*		*70 - 130 %*	"			"	
Toluene-d8			*97.0%*		*70 - 130 %*	"			"	
4-BFB			*103%*		*70 - 130 %*	"			"	

TestAmerica - Seattle, WA

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ERM-Bellevue	Project Name: **Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number: 48167.01	Report Created:
Bellevue, WA 98005	Project Manager: Brian Magee	06/04/07 17:05

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQE0316-02RE1 (MW-10-051807)		**Water**			**Sampled: 05/18/07 13:30**					
Tetrachloroethene	EPA 8260B	**380**	—	2.00	ug/l	10x	7E21060	05/21/07 14:08	05/21/07 19:40	
Surrogate(s): 1,2-DCA-d4			*106%*		*70 - 130 %*	*1x*			"	
Toluene-d8			*101%*		*70 - 130 %*	"			"	
4-BFB			*104%*		*70 - 130 %*	"			"	
BQE0316-03 (MW-11-051807)		**Water**			**Sampled: 05/18/07 12:50**					
Bromochloromethane	EPA 8260B	ND	—	0.200	ug/l	1x	7E18030	05/18/07 19:51	05/18/07 21:23	
Bromodichloromethane	"	ND	—	0.200	"	"	"	"	"	
Bromoform	"	ND	—	0.200	"	"	"	"	"	
Bromomethane	"	ND	—	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	—	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	—	0.200	"	"	"	"	"	
Chloroethane	"	ND	—	1.00	"	"	"	"	"	
Chloroform	"	ND	—	0.200	"	"	"	"	"	
Chloromethane	"	ND	—	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	—	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	**102**	—	0.200	"	"	"	"	"	E
trans-1,2-Dichloroethene	"	**1.03**	—	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	—	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
Methylene chloride	"	ND	—	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	—	0.500	"	"	"	"	"	
Tetrachloroethene	"	**277**	—	0.200	"	"	"	"	"	E
1,1,1-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
Trichloroethene	"	**17.7**	—	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	—	0.500	"	"	"	"	"	
Vinyl chloride	"	**0.400**	—	0.200	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*110%*		*70 - 130 %*	"			"	
Toluene-d8			*100%*		*70 - 130 %*	"			"	
4-BFB			*106%*		*70 - 130 %*	"			"	

TestAmerica - Seattle, WA

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915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQE0316-03RE1 (MW-11-051807)		**Water**			**Sampled: 05/18/07 12:50**					
cis-1,2-Dichloroethene	EPA 8260B	**101**	----	2.00	ug/l	10x	7E21060	05/21/07 14:08	05/21/07 20:06	
Tetrachloroethene	"	**266**	----	2.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*109%*		*70 - 130 %*	*1x*			"	
Toluene-d8			*101%*		*70 - 130 %*	"			"	
4-BFB			*102%*		*70 - 130 %*	"			"	

TestAmerica - Seattle, WA

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915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQE0316-01 (MW-4-051807)		**Water**				**Sampled: 05/18/07 14:10**				
Total Organic Carbon	EPA 415.1	**35.4**	---	2.00	mg/l	1x	7E21058	05/21/07 13:51	05/22/07 13:53	
BQE0316-02 (MW-10-051807)		**Water**				**Sampled: 05/18/07 13:30**				
Total Organic Carbon	EPA 415.1	ND	---	2.00	mg/l	1x	7E21058	05/21/07 13:51	05/22/07 14:24	
BQE0316-03 (MW-11-051807)		**Water**				**Sampled: 05/18/07 12:50**				
Total Organic Carbon	EPA 415.1	ND	---	2.00	mg/l	1x	7E21058	05/21/07 13:51	05/22/07 14:33	

TestAmerica - Seattle, WA

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Anions by EPA Method 300.0

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQE0316-01 (MW-4-051807)		**Water**				**Sampled: 05/18/07 14:10**				
Nitrite-Nitrogen	EPA 300.0	ND	—	0.200	mg/l as N	1x	7E21005	05/18/07 20:58	05/24/07 04:05	H, A-01
Sulfate	"	1.08	—	0.400	mg/l	"	"	"	05/18/07 22:32	
BQE0316-02 (MW-10-051807)		**Water**				**Sampled: 05/18/07 13:30**				
Nitrite-Nitrogen	EPA 300.0	ND	—	0.200	mg/l as N	1x	7E21005	05/18/07 20:58	05/24/07 03:18	H, A-01
Sulfate	"	9.09	—	0.400	mg/l	"	"	"	05/18/07 22:16	
BQE0316-03 (MW-11-051807)		**Water**				**Sampled: 05/18/07 12:50**				
Nitrite-Nitrogen	EPA 300.0	ND	—	0.200	mg/l as N	1x	7E21005	05/18/07 20:58	05/24/07 03:02	H, A-01
Sulfate	"	6.92	—	0.400	mg/l	"	"	"	05/18/07 21:29	

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Hydrocarbons by GC/FID Headspace

TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQE0316-01 (MW-4-051807)		**Water**			**Sampled: 05/18/07 14:10**					
Methane	RSK 175	**1480**	----	51.9	ug/l	43.3x	7060003	06/01/07 09:19	06/01/07 10:20	**RL7**
Ethane	"	ND	----	10.0	"	1x	"	"	"	
Ethene	"	ND	----	10.0	"	"	"	"	"	
BQE0316-02 (MW-10-051807)		**Water**			**Sampled: 05/18/07 13:30**					
Methane	RSK 175	ND	----	1.20	ug/l	1x	7060003	06/01/07 09:19	06/01/07 10:20	
Ethane	"	ND	----	10.0	"	"	"	"	"	
Ethene	"	ND	----	10.0	"	"	"	"	"	
BQE0316-03 (MW-11-051807)		**Water**			**Sampled: 05/18/07 12:50**					
Methane	RSK 175	**16.3**	----	1.20	ug/l	1x	7060003	06/01/07 09:19	06/01/07 10:20	
Ethane	"	ND	----	10.0	"	"	"	"	"	
Ethene	"	ND	----	10.0	"	"	"	"	"	

TestAmerica - Seattle, WA

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Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Dissolved Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E21040 **Water Preparation Method: EPA 3005A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7E21040-BLK1)								Extracted: 05/21/07 12:40						
Manganese	EPA 6010B - Diss	ND	---	0.0100	mg/l	1x	--	--	--	--	--	--	05/21/07 12:56	
Iron	"	ND	---	0.150	"	"	--	--	--	--	--	--	"	
LCS (7E21040-BS1)								Extracted: 05/21/07 12:40						
Manganese	EPA 6010B - Diss	4.99	---	0.0100	mg/l	1x	--	5.00	99.8%	(80-120)	--	--	05/21/07 13:01	
Iron	"	4.85	---	0.150	"	"	--	"	97.0%	"	--	--	"	
Duplicate (7E21040-DUP1)					QC Source: BQE0316-01			Extracted: 05/21/07 12:40						
Iron	EPA 6010B - Diss	15.3	---	0.150	mg/l	1x	15.3	--	--	--	0.00%	(20)	05/21/07 13:11	
Manganese	"	3.27	---	0.0100	"	"	3.26	--	--	--	0.306%	"	"	
Matrix Spike (7E21040-MS1)					QC Source: BQE0316-01			Extracted: 05/21/07 12:40						
Manganese	EPA 6010B - Diss	8.33	---	0.0100	mg/l	1x	3.26	5.00	101%	(80-120)	--	--	05/21/07 13:06	
Iron	"	19.6	---	0.150	"	"	15.3	"	86.0%	(75-126)	--	--	"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E18030 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7E18030-BLK1)							Extracted: 05/18/07 09:51							
Bromochloromethane	EPA 8260B	ND	---	0.200	ug/l	1x	--	--	--	--	--	--	05/18/07 12:59	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 102%*			*Limits: 70-130%*	"							*05/18/07 12:59*	
Toluene-d8		*102%*			*70-130%*	"							"	
4-BFB		*103%*			*70-130%*	"							"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E18030 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7E18030-BS1)								Extracted: 05/18/07 09:51						
Chlorobenzene	EPA 8260B	21.2	---	0.200	ug/l	1x	--	20.0	106%	(79-120)	--	--	05/18/07 11:54	
1,1-Dichloroethene	"	21.4	---	0.200	"	"	--	"	107%	(80-120)	--	--	"	
Trichloroethene	"	21.7	---	0.200	"	"	--	"	108%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 104%*			*Limits: 70-130%*	"							*05/18/07 11:54*	
Toluene-d8		*102%*			*70-130%*	"							"	
4-BFB		*102%*			*70-130%*	"							"	
LCS Dup (7E18030-BSD1)								Extracted: 05/18/07 09:51						
Chlorobenzene	EPA 8260B	19.9	---	0.200	ug/l	1x	--	20.0	99.5%	(79-120)	6.33%	(20)	05/18/07 12:27	
1,1-Dichloroethene	"	19.9	---	0.200	"	"	--	"	99.5%	(80-120)	7.26%	"	"	
Trichloroethene	"	19.5	---	0.200	"	"	--	"	97.5%	"	10.7%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 101%*			*Limits: 70-130%*	"							*05/18/07 12:27*	
Toluene-d8		*102%*			*70-130%*	"							"	
4-BFB		*100%*			*70-130%*	"							"	

QC Batch: 7E21060 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7E21060-BLK1)								Extracted: 05/21/07 12:08						
Bromochloromethane	EPA 8260B	ND	---	0.200	ug/l	1x	--	--	--	--	--	--	05/21/07 16:25	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E21060 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7E21060-BLK1)									Extracted: 05/21/07 12:08					
cis-1,3-Dichloropropene	EPA 8260B	ND	---	0.200	ug/l	1x	--	--	--	--	--	--	05/21/07 16:25	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 104%*			*Limits: 70-130%*	"							*05/21/07 16:25*	
Toluene-d8		*100%*			*70-130%*	"							"	
4-BFB		*102%*			*70-130%*	"							"	
LCS (7E21060-BS1)									Extracted: 05/21/07 12:08					
Chlorobenzene	EPA 8260B	20.9	---	0.200	ug/l	1x	--	20.0	104%	(79-120)	--	--	05/21/07 14:36	
1,1-Dichloroethene	"	22.6	---	0.200	"	"	--	"	113%	(80-120)	--	--	"	
Trichloroethene	"	22.0	---	0.200	"	"	--	"	110%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 107%*			*Limits: 70-130%*	"							*05/21/07 14:36*	
Toluene-d8		*101%*			*70-130%*	"							"	
4-BFB		*101%*			*70-130%*	"							"	
Matrix Spike (7E21060-MS1)					QC Source: BQE0299-09RE1				Extracted: 05/21/07 12:08					
Chlorobenzene	EPA 8260B	2060	---	20.0	ug/l	100x	ND	2000	103%	(75-125)	--	--	05/21/07 15:07	
1,1-Dichloroethene	"	2260	---	20.0	"	"	43.0	"	111%	"	--	--	"	
Trichloroethene	"	2210	---	20.0	"	"	143	"	103%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 104%*			*Limits: 70-130%*	*1x*							*05/21/07 15:07*	
Toluene-d8		*100%*			*70-130%*	"							"	
4-BFB		*101%*			*70-130%*	"							"	
Matrix Spike Dup (7E21060-MSD1)					QC Source: BQE0299-09RE1				Extracted: 05/21/07 12:08					
Chlorobenzene	EPA 8260B	1880	---	20.0	ug/l	100x	ND	2000	94.0%	(75-125)	9.14%	(20)	05/21/07 15:40	
1,1-Dichloroethene	"	1930	---	20.0	"	"	43.0	"	94.4%	"	15.8%	(30)	"	
Trichloroethene	"	2020	---	20.0	"	"	143	"	93.8%	"	8.98%	(20)	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 104%*			*Limits: 70-130%*	*1x*							*05/21/07 15:40*	
Toluene-d8		*102%*			*70-130%*	"							"	
4-BFB		*102%*			*70-130%*	"							"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E21058 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7E21058-BLK1)								Extracted: 05/21/07 13:51						
Total Organic Carbon	EPA 415.1	ND	---	2.00	mg/l	1x	--	--	--	--	--	--	05/22/07 13:33	
LCS (7E21058-BS1)								Extracted: 05/21/07 13:51						
Total Organic Carbon	EPA 415.1	25.4	---	2.00	mg/l	1x	--	25.0	102%	(90-110)	--	--	05/22/07 13:44	
Duplicate (7E21058-DUP1)					QC Source: BQE0316-01			Extracted: 05/21/07 13:51						
Total Organic Carbon	EPA 415.1	36.6	---	2.00	mg/l	1x	35.4	--	--	--	3.33%	(25)	05/22/07 14:04	
Matrix Spike (7E21058-MS1)					QC Source: BQE0316-01			Extracted: 05/21/07 13:51						
Total Organic Carbon	EPA 415.1	57.6	---	2.00	mg/l	1x	35.4	25.0	88.8%	(60-140)	--	--	05/22/07 14:14	

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Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Anions by EPA Method 300.0 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E21005 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7E21005-BLK1)							**Extracted: 05/18/07 20:58**							
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	--	--	--	--	--	--	05/24/07 04:52	H, A-01
Sulfate	"	ND	---	0.400	mg/l	"	--	--	--	--	--	--	05/18/07 20:58	
LCS (7E21005-BS1)							**Extracted: 05/18/07 20:58**							
Sulfate	EPA 300.0	5.82	---	0.400	mg/l	1x	--	6.00	97.0%	(90-110)	--	--	05/18/07 21:14	
Nitrite-Nitrogen	"	0.970	---	0.200	mg/l as N	"	--	1.00	97.0%	"	--	--	05/24/07 05:08	H, A-01
Duplicate (7E21005-DUP1)					**QC Source: BQE0316-03**		**Extracted: 05/18/07 20:58**							
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	ND	--	--	--	NR	(25)	05/24/07 04:36	H, A-01
Sulfate	"	6.96	---	0.400	mg/l	"	6.92	--	--	--	0.576%	"	05/18/07 22:01	
Matrix Spike (7E21005-MS1)					**QC Source: BQE0316-03**		**Extracted: 05/18/07 20:58**							
Sulfate	EPA 300.0	12.5	---	0.400	mg/l	1x	6.92	6.00	93.0%	(54-124)	--	--	05/18/07 21:45	
Nitrite-Nitrogen	"	1.07	---	0.200	mg/l as N	"	ND	1.00	107%	(69-137)	--	--	05/24/07 04:21	H, A-01

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Hydrocarbons by GC/FID Headspace - Laboratory Quality Control Results

TestAmerica - Anchorage, AK

QC Batch: 7060003 **Water Preparation Method: RSK**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7060003-BLK1)								Extracted: 06/01/07 09:19						
Methane	RSK 175	ND	---	1.20	ug/l	1x	--	--	--	--	--	--	06/01/07 10:20	
Ethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Ethene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
LCS (7060003-BS1)								Extracted: 06/01/07 09:19						
Methane	RSK 175	55.7	---	1.20	ug/l	1x	--	55.8	99.8%	(80-120)	--	--	06/01/07 10:20	
Ethane	"	123	---	10.0	"	"	--	112	110%	"	--	--	"	
Ethene	"	147	---	10.0	"	"	--	134	110%	"	--	--	"	
LCS Dup (7060003-BSD1)								Extracted: 06/01/07 09:19						
Methane	RSK 175	56.9	---	1.20	ug/l	1x	--	55.8	102%	(80-120)	2.13%	(25)	06/01/07 10:20	
Ethane	"	125	---	10.0	"	"	--	112	112%	"	1.61%	"	"	
Ethene	"	151	---	10.0	"	"	--	134	113%	"	2.68%	"	"	
Duplicate (7060003-DUP1)					QC Source: BQE0316-01			Extracted: 06/01/07 09:19						
Methane	RSK 175	1590	---	51.9	ug/l	43.26x	1480	--	--	--	7.17%	(35)	06/01/07 10:20	RL7
Ethane	"	ND	---	10.0	"	1x	ND	--	--	--	6.65%	(17)	"	
Ethene	"	ND	---	10.0	"	"	ND	--	--	--	6.81%	(16.2)	"	

TestAmerica - Seattle, WA

Kate Haney, Project Manager

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ERM-Bellevue	Project Name:	**Snohomish Square**	
915-118th Avenue S.E., Suite 130	Project Number:	48167.01	Report Created:
Bellevue, WA 98005	Project Manager:	Brian Magee	06/04/07 17:05

Notes and Definitions

Report Specific Notes:

A-01	-	The original analysis of this sample yielded QC recoveries outside the laboratory established acceptance criteria due to the sample matrix. The sample was re-analyzed outside of the method established hold time.
E	-	Concentration exceeds the calibration range and therefore result is semi-quantitative.
H	-	Sample analysis performed past method-specified holding time.
RL7	-	Sample required dilution due to high concentrations of target analyte.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Kate Haney

Kate Haney, Project Manager

Environmental Resource Management

CHAIN OF CUSTODY RECORD

NO:

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Page 1 of

PROJECT #	PROJECT NAME

SAMPLER: (PRINT NAME)	(SIGNATURE)

RECEIVING LABORATORY

SAMPLE I.D.	DATE	TIME	COMP	GRAB	SAMPLING METHOD	PRESER VATIVE	ICE (Y/N)	SAMPLING VOLUME	# OF CONTAINERS	MATRIX: SOIL	MATRIX: WATER	MATRIX: GAS	REQUESTED PARAMETERS
													01
													02
													03
	5/18	1715							1				04

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
	5/18/07	1557	134	5/18/07	1557
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME

FIELD REMARKS

REMARKS ON SAMPLE RECEIPT

☐ BOTTLE INTACT ☐ CUSTODY SEALS ☐ CHILLED
☐ PRESERVED ☐ SEALS INTACT ☐ SEE REMARKS

ERM REMARKS

SEND REPORT TO:

Jennifer Bennett / Brian Magee

WHITE - LABORATORY COPY CANARY - FIELD COPY PINK - DATABASE MANAGER GOLD - PROJECT FILE

Appendix B
Boring Logs

ERM
915 118th Avenue SE
Suite 130
Bellevue, WA 98005
ERM (425) 462-6591

BOREHOLE LOG

Site Id: MW-10

Project Number: 0048167.03
Project Name: Snohomish Square
Location: Snohomish, Washington
Contractor: Holt Drilling
Drilling Method: Hollow Stem Auger
Logged By: B. Magee
Date(s): 11/20/06
Initial Water Level: 10.00'
Static Water Level: NA

Total Depth: 21.50'
Completed Depth: 20.50'
Borehole Dia.: 8.25in

Blank Casing:				
type: Sch. 40 PVC		dia: 2.00in	fm: 0.0'	to: 10.00'
type: Well Cap		dia: 2.00in	fm: 20.00'	to: 20.50'
Screens:				
type: Slotted	size: 0.010in	dia: 2.00in	fm: 10.00'	to: 20.00'
Annular Fill:				
type: Concrete			fm: 0.50'	to: 2.50'
type: Bentonite Chips			fm: 2.50'	to: 9.00'
type: 10-20 Colorado Silica			fm: 9.00'	to: 21.50'

Depth (ft)	USCS Code	Sample Recovery	Blow Count	PID (ppm)	Description/Soil Classification
	ML				Asphalt. SILT (ML): tan orange gray, some fine sand, firm, moist.
			2 5 8		GRAVELLY SILT (ML): brown.
5					
	SM		15	5.0	SILTY SAND (SM): brown, cohesive, moist.
	GP		27 30		GRAVEL (GP): gray, shattered.
10	SM		50 27 50	8.1	SILTY SAND (SM): medium to coarse grained, some gravel, subrounded, saturated.
	SP		50 50 50-5		SAND (SP): tan, little to no silt, medium to coarse grained. Shattered rock.
	GP				
15	SP		38 54 -		SAND (SP): gray, coarse grained, saturated. Shattered rock.
	GP				
	ML		43 54 -		SILT (ML): tan, some gravel and sand, very hard.
20			49 50-2		Total Depth - 21.5' bgs

ERM
915 118th Avenue SE
Suite 130
Bellevue, WA 98005
(425) 462-6591

BOREHOLE LOG

Site Id: MW-11

Project Number: 0048167.03
Project Name: Snohomish Square
Location: Snohomish, Washington
Contractor: Holt Drilling
Drilling Method: Hollow Stem Auger
Logged By: B. Magee
Date(s): 11/20/06
Initial Water Level: 10.00'
Static Water Level: NA

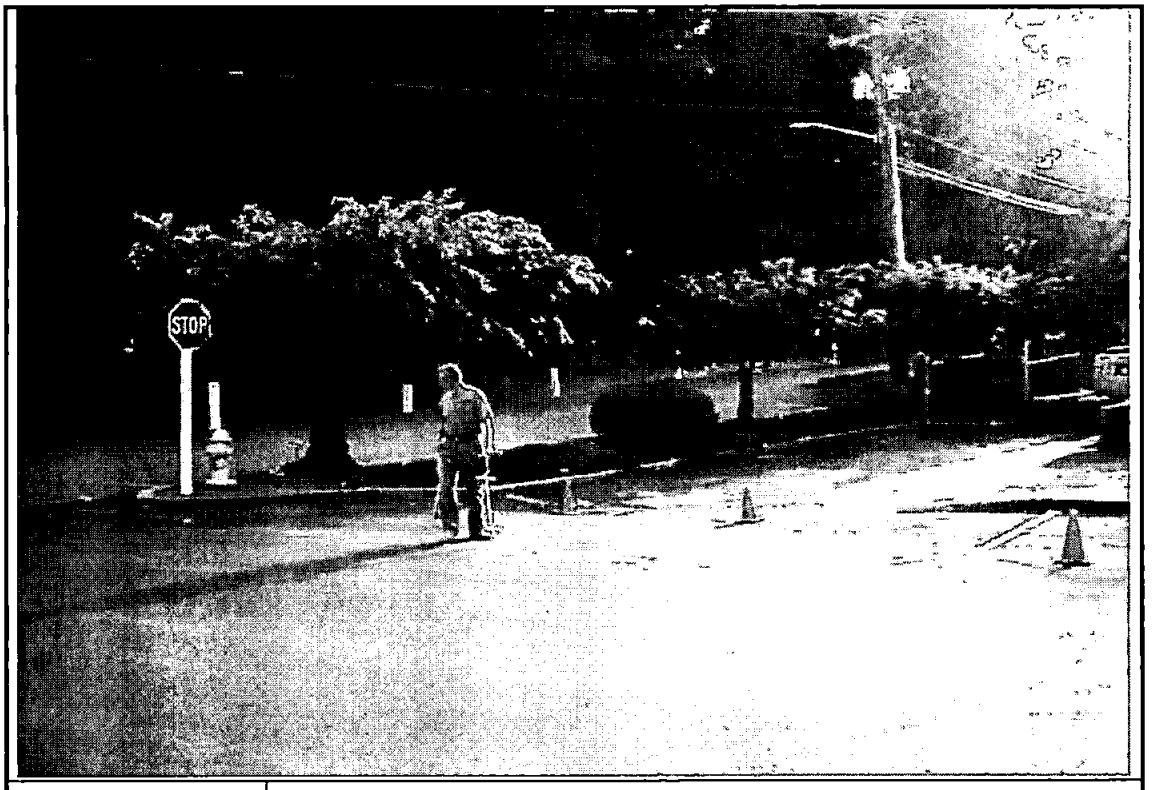
Total Depth: 21.50'
Completed Depth: 21.25'
Borehole Dia.: 8.25in

Blank Casing:				
type: Sch. 40 PVC		dia: 2.00in	fm: 0.0'	to: 11.00'
type: Well Cap		dia: 2.00in	fm: 21.00'	to: 21.25'
Screens:				
type: Slotted	size: 0.010in	dia: 2.00in	fm: 11.00'	to: 21.00'
Annular Fill:				
type: Concrete			fm: 0.50'	to: 3.00'
type: Bentonite Chips			fm: 3.00'	to: 9.00'
type: 10-20 Colorado Silica			fm: 9.00'	to: 21.50'

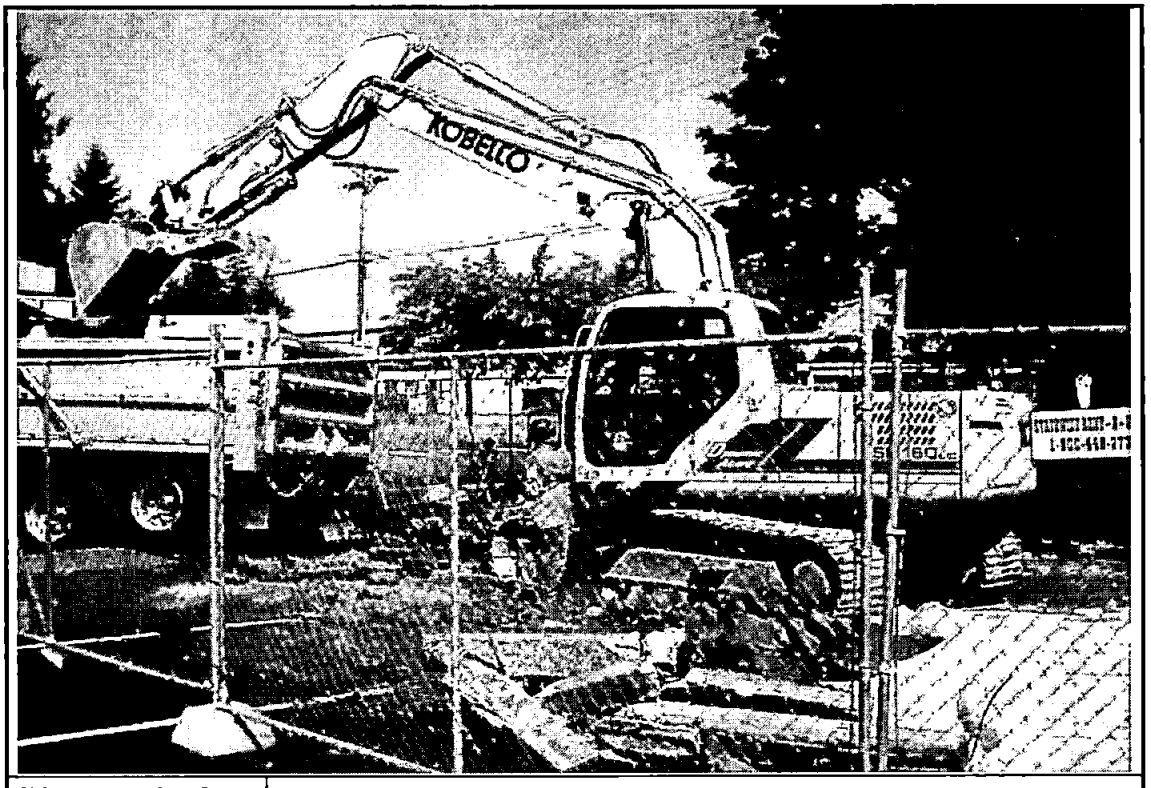
Depth (ft)	USCS Code	Sample Recovery	Blow Count	PID (ppm)	Description/Soil Classification
	FILL				Asphalt, 4.0". Sand and gravel.
	ML				SILT (ML): brown, plastic, wet.
5	SM				SILTY SAND (SM): brown, some cobbles(?), based on rig behavior.
			2		SILTY SAND (SM): tan, with gravel, slightly cohesive, wet.
	ML		1		SILT (ML): tan and orange, firm, cohesive, sligthly moist.
			2		No recovery.
10	SM ▽		7		SILTY SAND (SM): tan, with gravel, saturated.
			11		No recovery.
			20		
	SP		26		SAND (SP): tan, medium to coarse grained, some silt, saturated.
	GP		30		SANDY GRAVEL (SP): tan gray, large gravel, saturated.
			39		
15					Cobbles(?), based on rig chatter.
	SM/GM		41		SILTY SAND/GRAVEL (SM/GM): tan silt, gray sand and shattered gravel.
			45		
			55		
			48		SILTY SANDY GRAVEL (GM): gray, very hard, cohesive, saturated.
	ML		52		SANDY SILT (ML): tan gray, with gravel, hard, cohesive.
			–		No recovery.
20	SM/GM		54		SILTY SAND/GRAVEL (SM/GM): tan, saturated.
			–		No recovery.
			–		Total Depth – 21.5' bgs

Well Construction

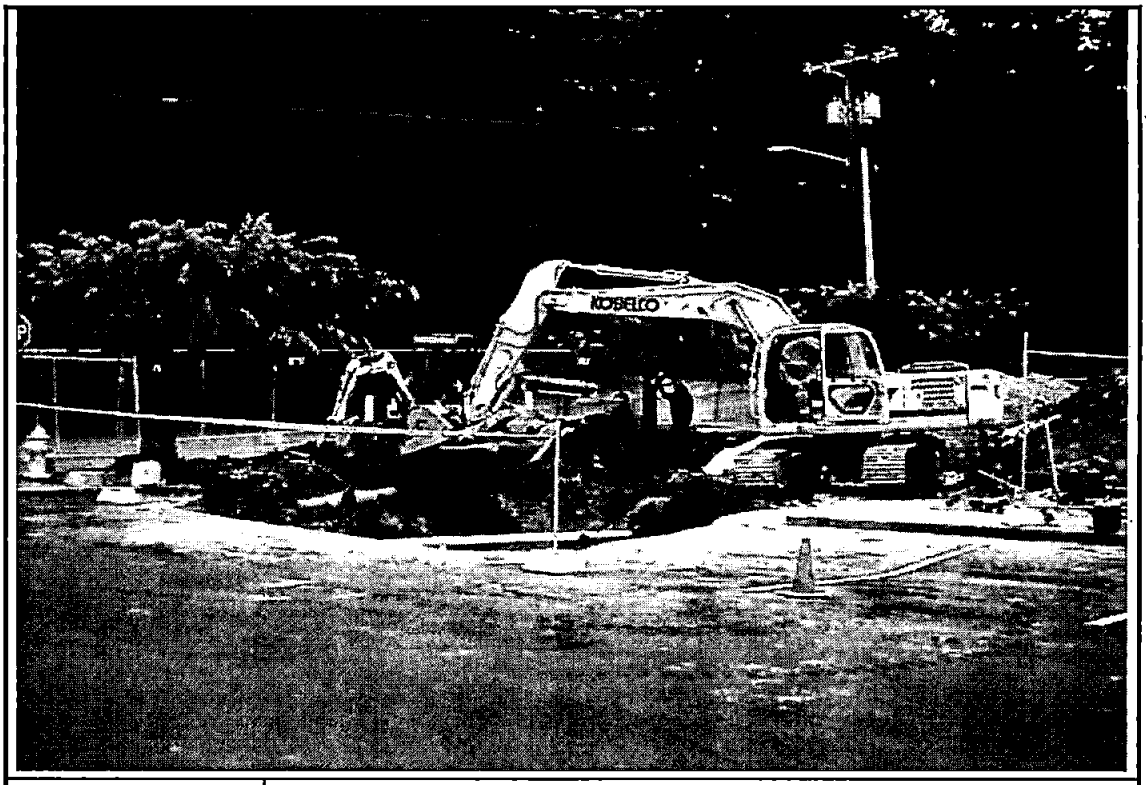
Appendix C
Site Photos



Photograph: *1*		
Snohomish Square Cleaners Facility	***ERM***	*Private Utility Location*



Photograph: *2*		
Snohomish Square Cleaners Facility	***ERM***	*Asphalt Removal*

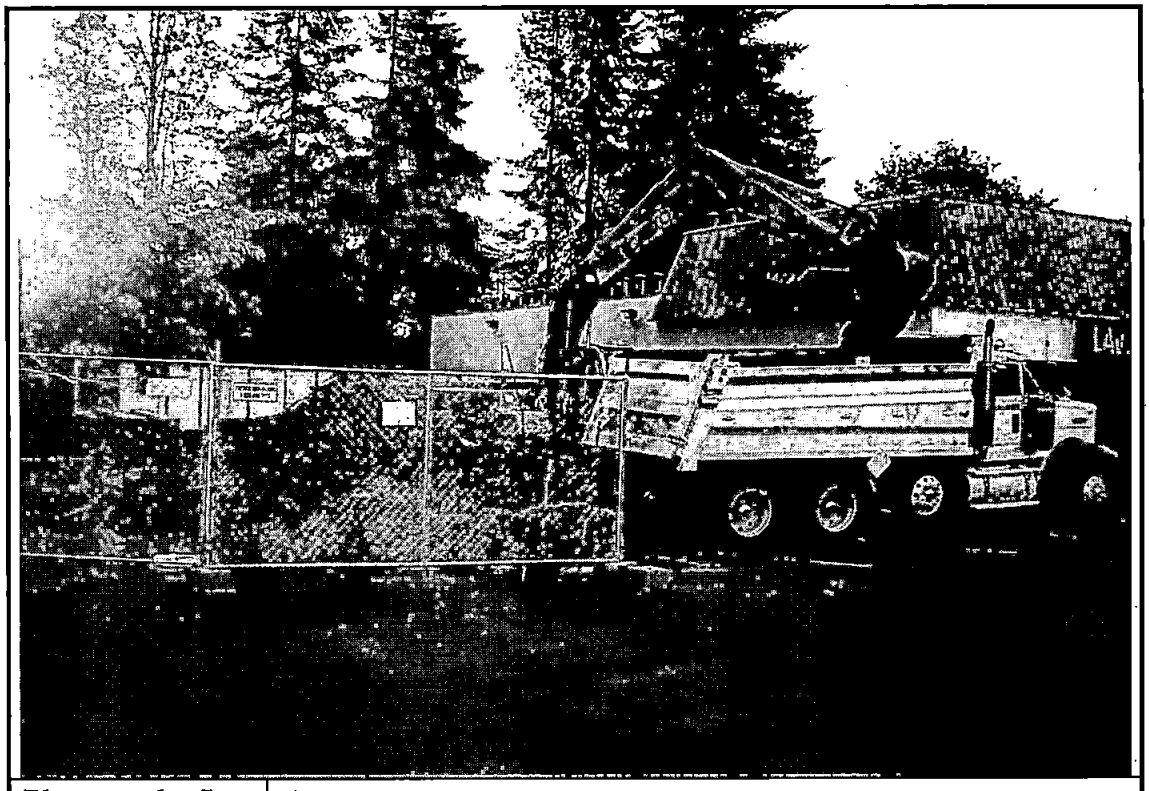


Photograph: *3*		
Snohomish Square Cleaners Facility	***ERM***	*Active Excavation*

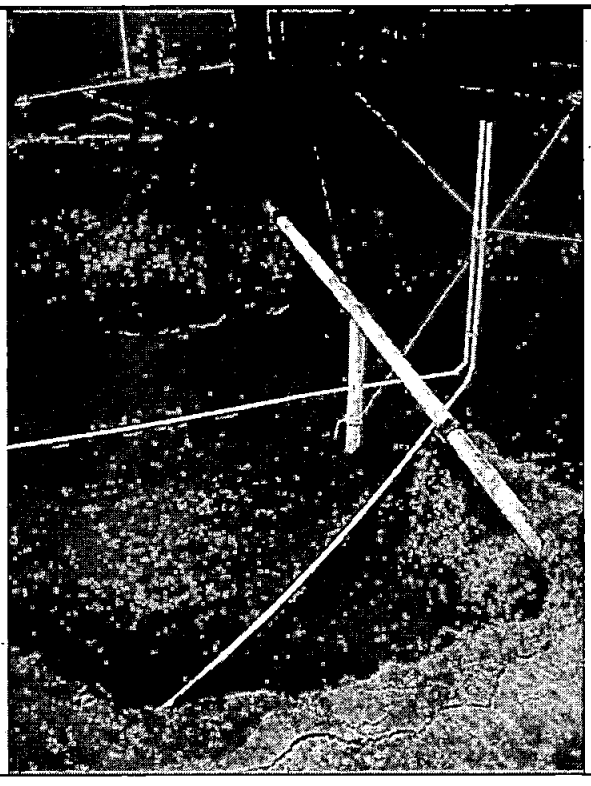
Photograph: *4*		
Snohomish Square Cleaners Facility	***ERM***	*Active Excavation*

Photograph: *5*		
Snohomish Square Cleaners Facility	***ERM***	*Groundwater in Excavation*

Photograph: *6*		
Snohomish Square Cleaners Facility	***ERM***	*Soil Stock Pile*



Photograph: *7*		
Snohomish Square Cleaners Facility	***ERM***	*Soil Load-out for Hauling*



Photograph: *8*		
Snohomish Square Cleaners Facility	***ERM***	*Horizontal Injection Galley*

Appendix D
Bench Scale Test Reports

Table 1. Total Soil Permanganate Demand Test Results
Snohomish Square, OR
31-May-06

B 17-10'

Theoretical Permanganate Load (mg/kg of wet-weight soil)	Actual Permanganate Load (mg/kg of wet-weight soil)	Observed Supernatent Color (7 Days)	Observed ORP (mV)	Observed pH	Permanganate Demand (g/kg of wet weight soil)	Permanganate Demand (lb/yd3 soil)*
20,000	20,734	purple	607	6.9	< 21	< 56
10,000	10,350	purple	627	6.6	< 10	< 28
5,000	5,289	purple	615	6.4	< 5.3	< 14
2,500	2,715	clear	522	6.1	> 2.7	> 7.3
1,250	1,317	clear	499	6.0	> 1.3	> 3.6
625	675	clear	499	5.8	> 0.67	> 1.8
313	380	clear	NA**	NA**	> 0.38	> 1.02
156	186	clear	NA**	NA**	> 0.19	> 0.50
78	120	clear	NA**	NA**	> 0.12	> 0.32
39	46	clear	NA**	NA**	> 0.046	> 0.13

*Assumes a 30% porosity and a soil bulk density of 100 lb/ft^3
**NA = Not Analyzed

B 20 9.5'

Theoretical Permanganate Load (mg/kg of wet-weight soil)	Actual Permanganate Load (mg/kg of wet-weight soil)	Observed Supernatent Color (7 Days)	Observed ORP (mV)	Observed pH	Permanganate Demand (g/kg of wet weight soil)	Permanganate Demand (lb/yd3 soil)*
20,000	22,187	purple	NA**	NA**	< 22	< 60
10,000	10,633	purple	NA**	NA**	< 11	< 29
5,000	5,465	purple	NA**	NA**	< 5.5	< 14.8
2,500	2,505	purple	NA**	NA**	< 2.5	< 6.8
1,250	1,336	purple	666	5.6	< 1.3	< 3.6
625	660	purple	648	5.5	< 0.66	< 1.8
313	314	purple	625	5.4	< 0.31	< 0.85
156	197	clear	595	5.3	> 0.20	> 0.53
78	86	clear	572	5.3	> 0.086	> 0.23
39	49	clear	551	5.3	> 0.049	> 0.13

*Assumes a 30% porosity and a soil bulk density of 100 lb/ft^3
**NA = Not Analyzed

B 21 10.5'

Theoretical Permanganate Load (mg/kg of wet-weight soil)	Actual Permanganate Load (mg/kg of wet-weight soil)	Observed Supernatent Color (7 Days)	Observed ORP (mV)	Observed pH	Permanganate Demand (g/kg of wet weight soil)	Permanganate Demand (lb/yd3 soil)*
20,000	21,024	purple	NA**	NA**	< 21	< 57
10,000	10,686	purple	NA**	NA**	< 11	< 29
5,000	5,591	purple	NA**	NA**	< 5.6	< 15.1
2,500	2,660	purple	NA**	NA**	< 2.7	< 7.2
1,250	1,325	purple	NA**	NA**	< 1.3	< 3.6
625	645	purple	658	5.8	< 0.65	< 1.7
313	288	purple	631	5.8	< 0.29	< 0.78
156	217	purple	613	5.8	< 0.22	< 0.58
78	95	clear	565	5.8	> 0.095	> 0.26
39	52	clear	545	5.7	> 0.052	> 0.14

*Assumes a 30% porosity and a soil bulk density of 100 lb/ft^3
**NA = Not Analyzed

B 22 10'

Theoretical Permanganate Load (mg/kg of wet-weight soil)	Actual Permanganate Load (mg/kg of wet-weight soil)	Observed Supernatent Color (7 Days)	Observed ORP (mV)	Observed pH	Permanganate Demand (g/kg of wet weight soil)	Permanganate Demand (lb/ft3 soil)*
20,000	20,853	purple	NA**	NA**	< 21	< 56
10,000	10,366	purple	NA**	NA**	< 10	< 28
5,000	5,051	purple	680	6.01	< 5.1	< 13.6
2,500	2,721	purple	670	5.91	< 2.7	< 7.3
1,250	1,321	purple	639	6.3	< 1.3	< 3.6
625	800	clear	590	5.783	> 0.80	> 2.2
313	328	clear	591	5.541	> 0.33	> 0.89
156	196	clear	571	5.571	> 0.20	> 0.53
78	102	clear	NA**	NA**	> 0.102	> 0.28
39	60	clear	NA**	NA**	> 0.060	> 0.16

*Assumes a 30% porosity and a soil bulk density of 100 lb/ft^3
**NA = Not Analyzed

microbialinsights

2340 Stock Creek Blvd.
Rockford TN 37853-3044
Phone: (865) 573-8188
Fax: (865) 573-8133
Email: info@microbe.com

Analysis Report

Client: Mike Lee
Terra Systems, Inc.
1035 Philadelphia Pike
Suite E
Wilmington, DE 19809

Phone: (302) 798-9553

Fax: (302) 798-9554

MI Identifier: 011DE **Date Rec:** 05/04/2006 **Report Date:** 05/09/2006

Client Project #: **Client Project Name:** Snohomish Square, OR

Purchase Order #:

Analysis Requested: CENSUS (final), Chain of Custody

Comments:

All samples within this data package were analyzed under U.S. EPA Good Laboratory Practice Standards: Toxic Substances Control Act (40 CFR part 790). All samples were processed according to standard operating procedures. Test results submitted in this data package meet the quality assurance requirements established by Microbial Insights, Inc.

Reported By: Dora M Ogles

Reviewed By: Greg A. Davis

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel: (865) 573-8188; Fax: (865) 573-8133

Q Potential (DNA)

Client: **Terra Systems, Inc.**
Project: Snohomish Square, OR

MI Project Number: **011DE**
Date Received: 05/04/2006

Sample Information

Client Sample ID:		**SS composite A**	**SI composite B**
Sample Date:		05/03/2006	05/03/2006
Units:		cells/g	cells/g
Dechlorinating Bacteria			
Dehalococcoides spp (1)	DHC	**7.35E+03**	**4.24E+03**
Functional Genes			
TCE R-Dase (1)	TCE	<7.85E+02	<8.88E+02
VC R-Dase	VCR	<7.85E+02	<8.88E+02

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

Notes:
1 Bio-Dechlor Census technology was developed by Dr. Loeffler and colleagues at Georgia Institute of Technology and was licensed for use through Regenesis.

REPORT TO:

Reports will be provided to the contact(s) listed below. Parties other than the contact(s) listed below will require prior approval.

Name: Mike Lee
Company: Terra Systems, Inc
Address: 1035 Philadelphia Pike, Suite E
Wilmington DE 19809
email: MLee@terrasystems.net
Phone: (302) 798-9553
Fax: (302) 798-9554

Project Manager:
Project Name: Snohomish Square, OR
Project No.:

INVOICE TO:

For invoices paid by a third party it is imperative that contact information & corresponding reference No. be provided.

Name: Same
Company:
Address:
email:
Phone: ( )
Fax: ( )

Purchase Order No.
Subcontract No.

microbialinsights
2340 Stock Creek Blvd.
Rockford, TN 37853-3044
phone (865) 573-8188
fax: (865) 573-8133
email: info@microbe.com
www.microbe.com

Please Check One:
☐ More Samples to Follow
☐ No Additional Samples

Please contact us prior to submitting samples regarding questions about the analyses you are requesting at (865) 573-8188 (8:00 am to 5:00 pm M-F). After these hours please call (865) 300-8053.

Sample Information					qPCR Targets																										
MI ID (Laboratory Use Only)	Sample Name	Date Sampled	Matrix	Contaminant (BTEX, TCE, etc.)	PLFA	VFA	MIDE	[illegible]	[illegible]	16SrRNA (Total)	16SrRNA	dNAN (methanogens)	dMCR (methanogens)	dDHF (Dehalo.ing)	dRDB (benzene oxidizers)	dDHC (Dehalococcoides)	dTCE R-Dase	dBAV1 VC R-Dase	dDHE (Dehalobacter)	dDSM (Desulfuromonas)	dPAH (BTEX sensitive)	dTOL (Total PAHs sensitive)	dDNT (Intermediate PAHs sensitive)	dBSS (Toluene/Xylene Anaerobes)	dNAH (naphthalene aerobes)	qPCR	Other:	Other:	Other:			
011DE1	SS composite A	5/3/06	S													X	+	X													
↓ 2	SS Composite B	5/3/06	S													X	X	X													

B.J. Fed-Ex

Sample(s) Received: 05/04/06 Time: 11:09 a.m.

COC sent: (Y) N Bottle ID match: (Y) N

Temp.: 11 °C All intact? ✓ 2 oak Ridge tubes (soil)

No. of damaged/missing samples: —

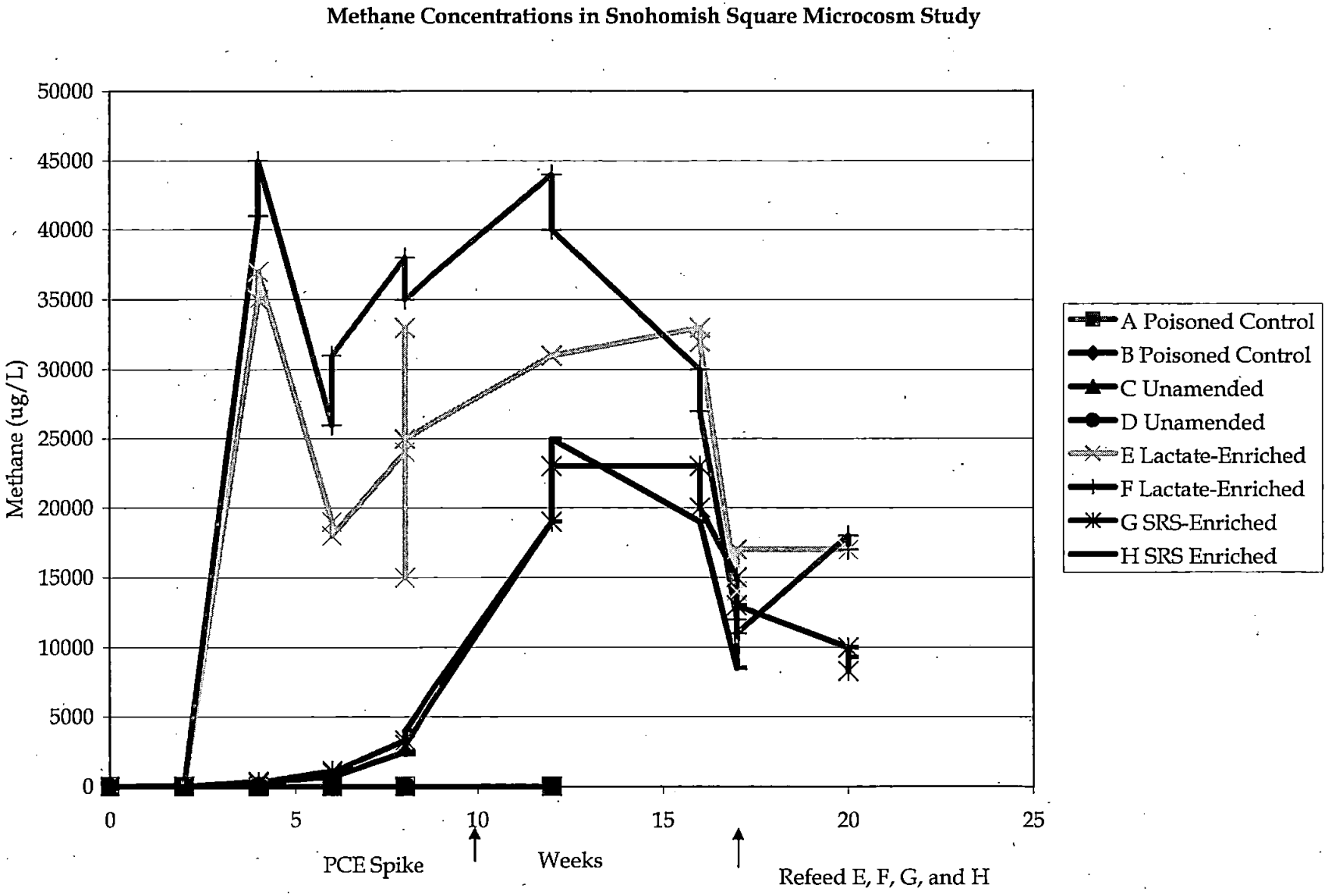
Sample Analyses Requested

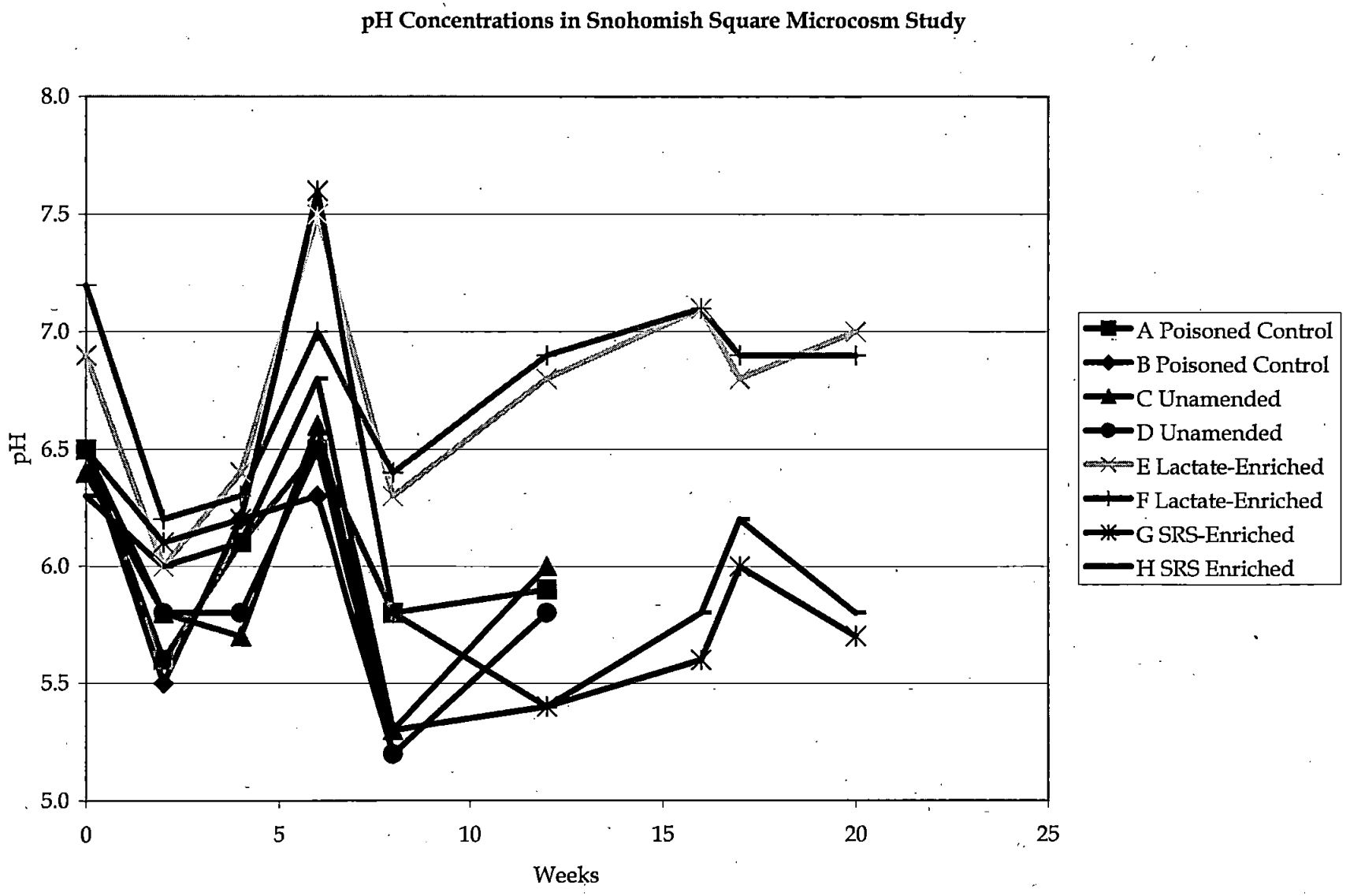
CUL (DNA) IAQ PLFA VFA Other: _____

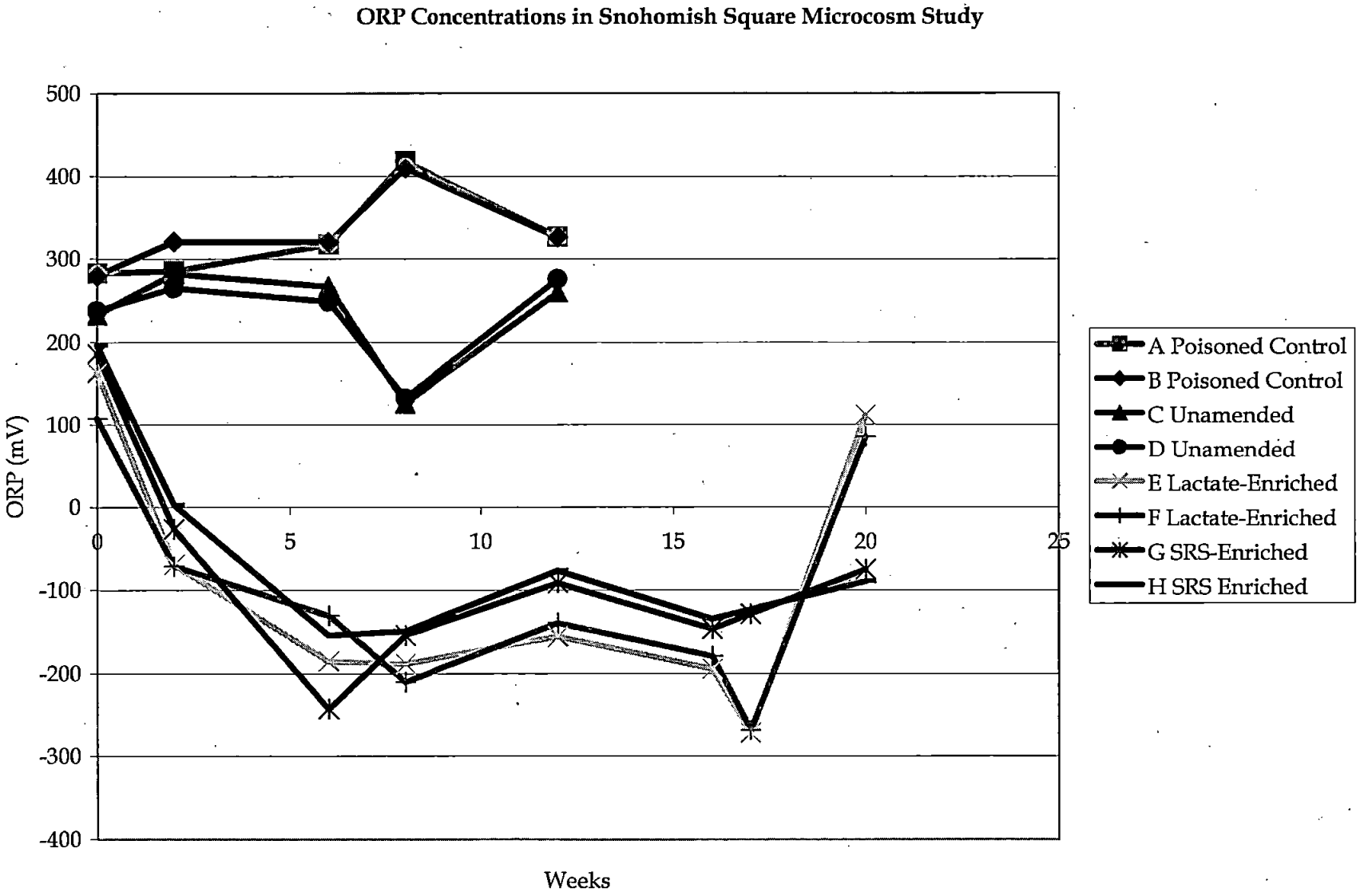
Set #: 011DE Signed: Brian Jacobs

Relinquished by: Michael D Lee Date: 5/3/06 16:45 Received by:

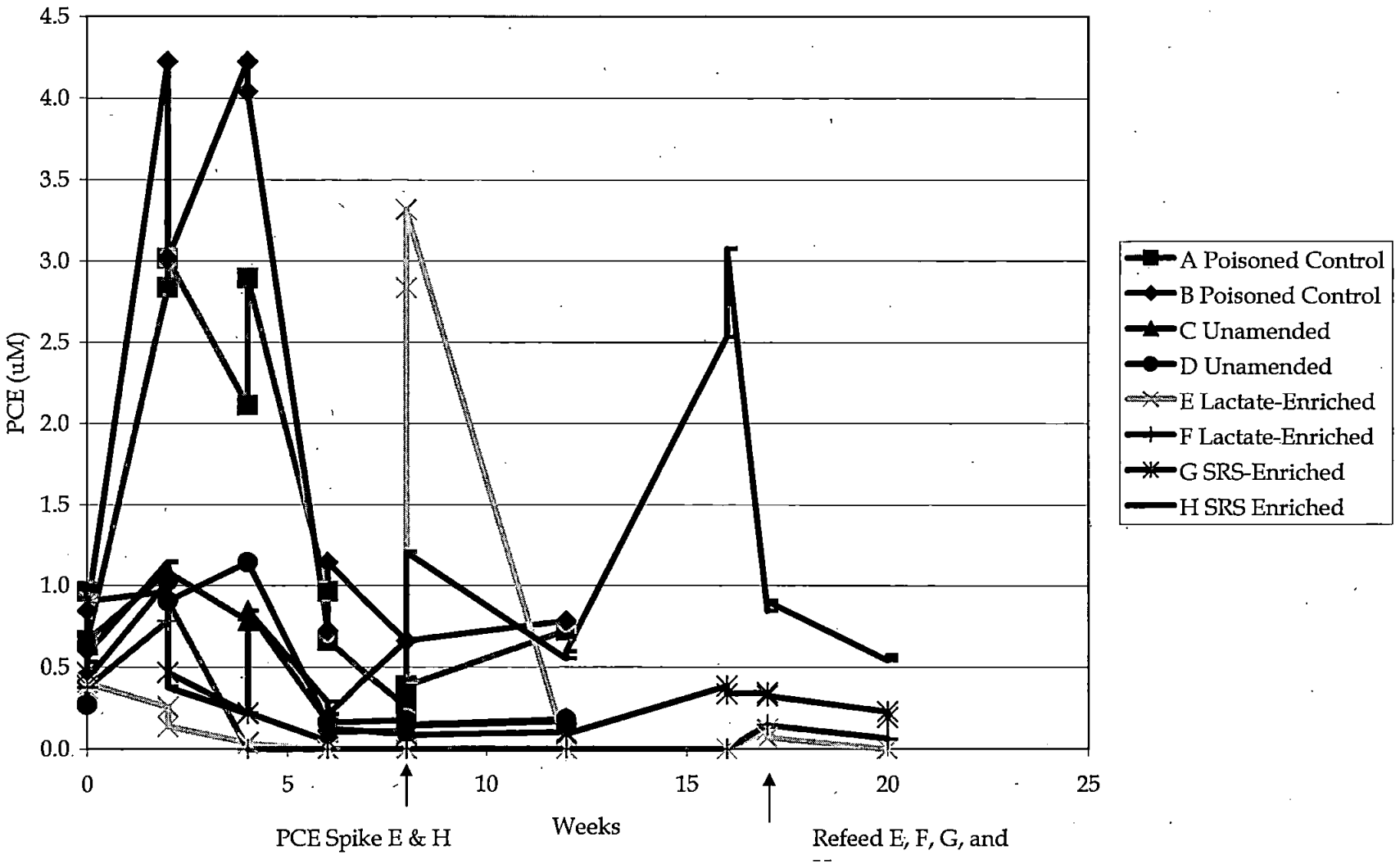
In order for analysis to be completed correctly, it is vital that chain of custody is filled out correctly & that all relative information is provided. Fa
information may result in delays for which MI will not be liable.

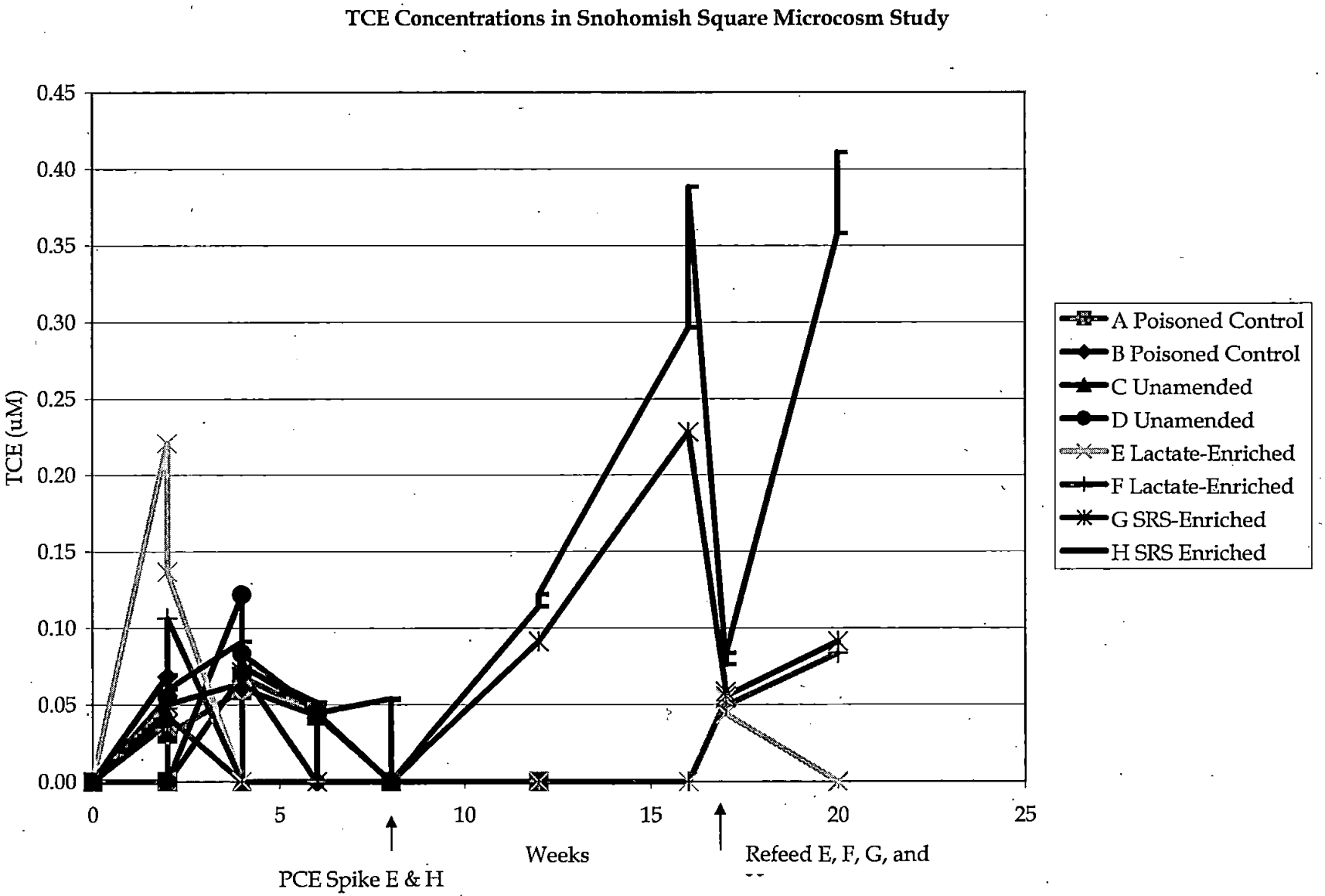

Methane Concentrations in Snohomish Square Microcosm Study
Methane (ug/L)
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0
5
10
15
20
25
Weeks
PCE Spike
Refeed E, F, G, and H
A Poisoned Control
B Poisoned Control
C Unamended
D Unamended
E Lactate-Enriched
F Lactate-Enriched
G SRS-Enriched
H SRS Enriched

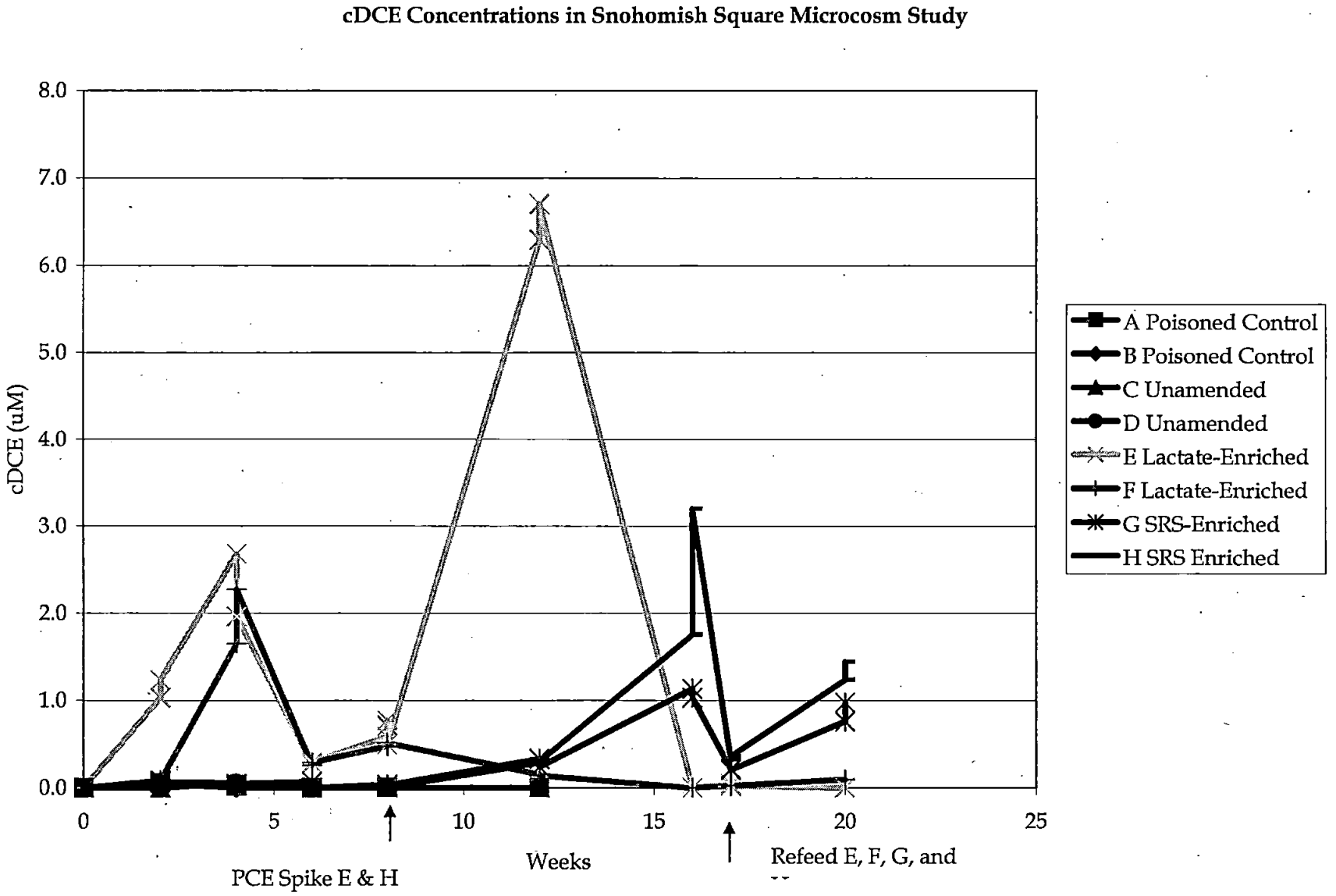

pH Concentrations in Snohomish Square Microcosm Study
8.0
7.5
7.0
6.5
6.0
5.5
5.0
pH
0
5
10
15
20
25
Weeks
A Poisoned Control
B Poisoned Control
C Unamended
D Unamended
E Lactate-Enriched
F Lactate-Enriched
G SRS-Enriched
H SRS Enriched

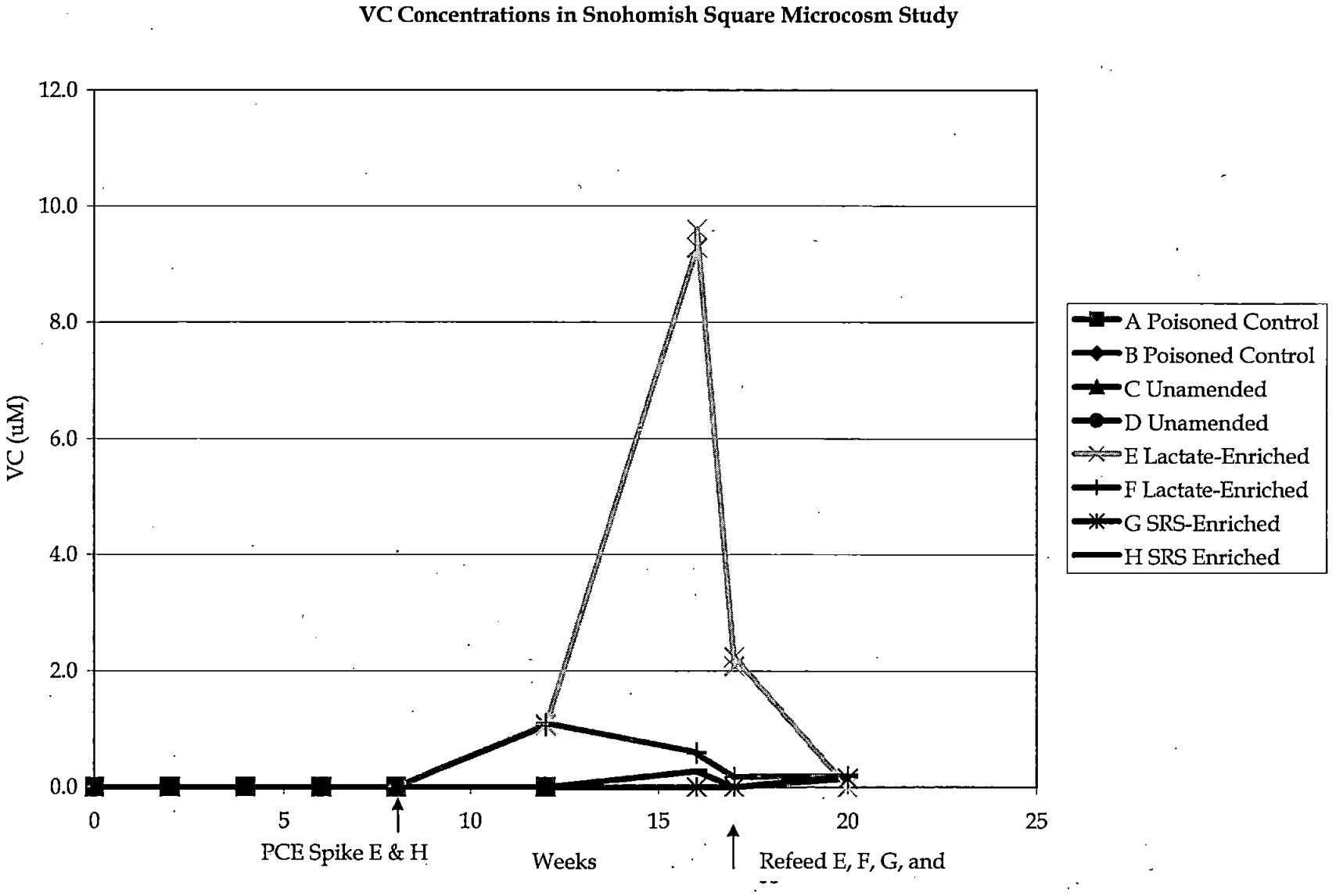

ORP Concentrations in Snohomish Square Microcosm Study
500
400
300
200
100
0
-100
-200
-300
-400
ORP (mV)
0
5
10
15
20
25
Weeks
A Poisoned Control
B Poisoned Control
C Unamended
D Unamended
E Lactate-Enriched
F Lactate-Enriched
G SRS-Enriched
H SRS Enriched

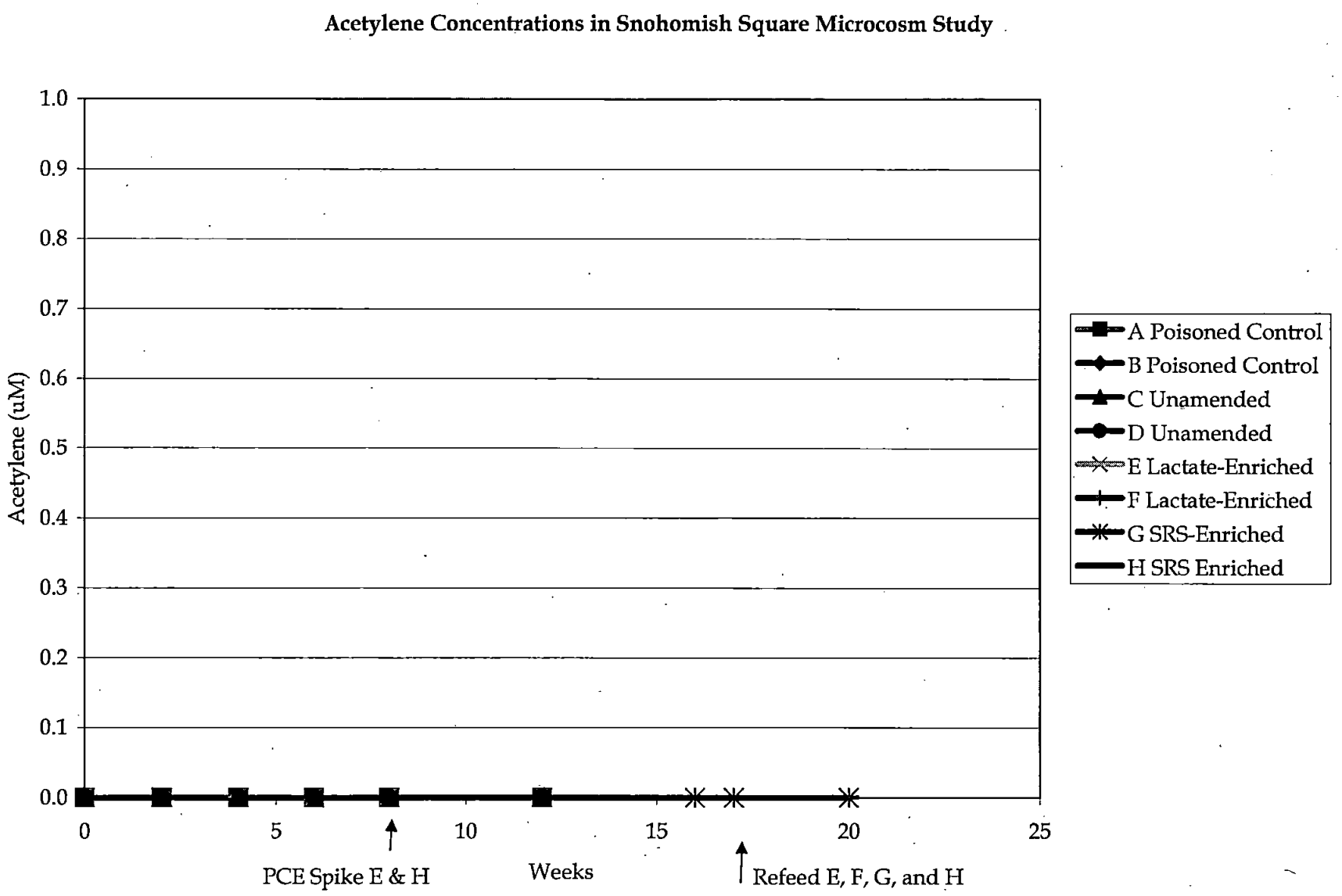
PCE Concentrations in Snohomish Square Microcosm Study

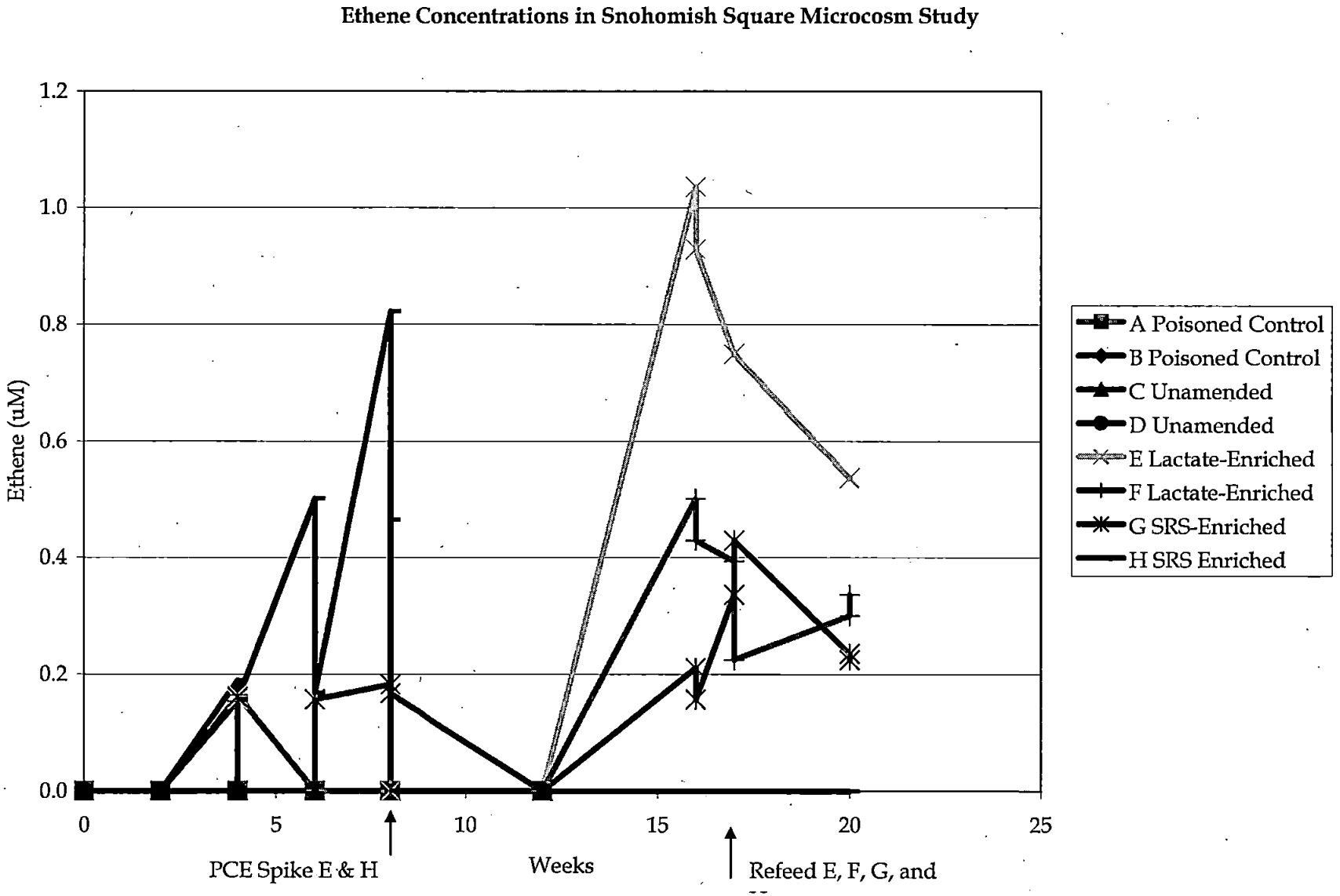


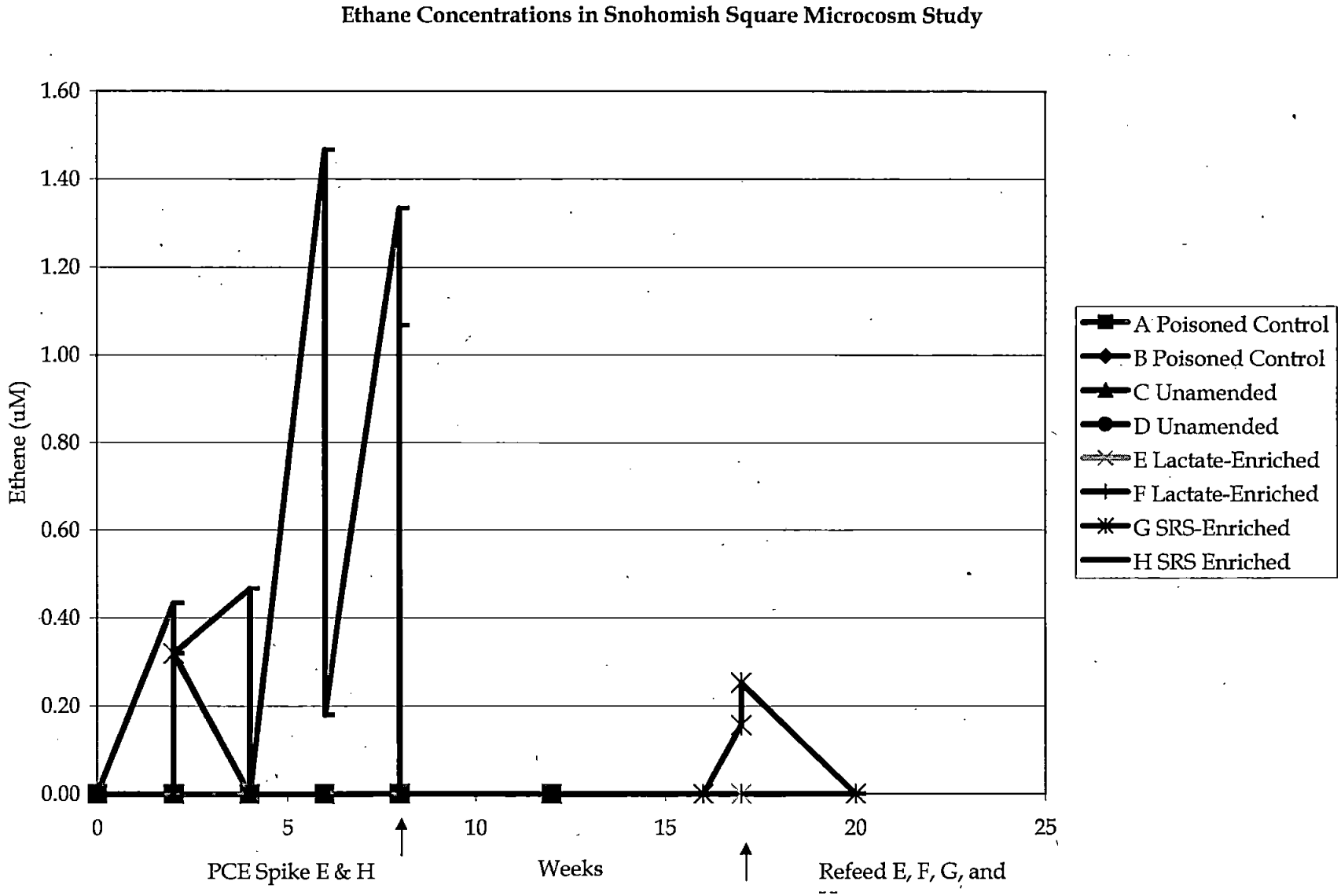

TCE Concentrations in Snohomish Square Microcosm Study
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TCE (uM)
0
5
10
15
20
25
Weeks
PCE Spike E & H
Refeed E, F, G, and
A Poisoned Control
B Poisoned Control
C Unamended
D Unamended
E Lactate-Enriched
F Lactate-Enriched
G SRS-Enriched
H SRS Enriched

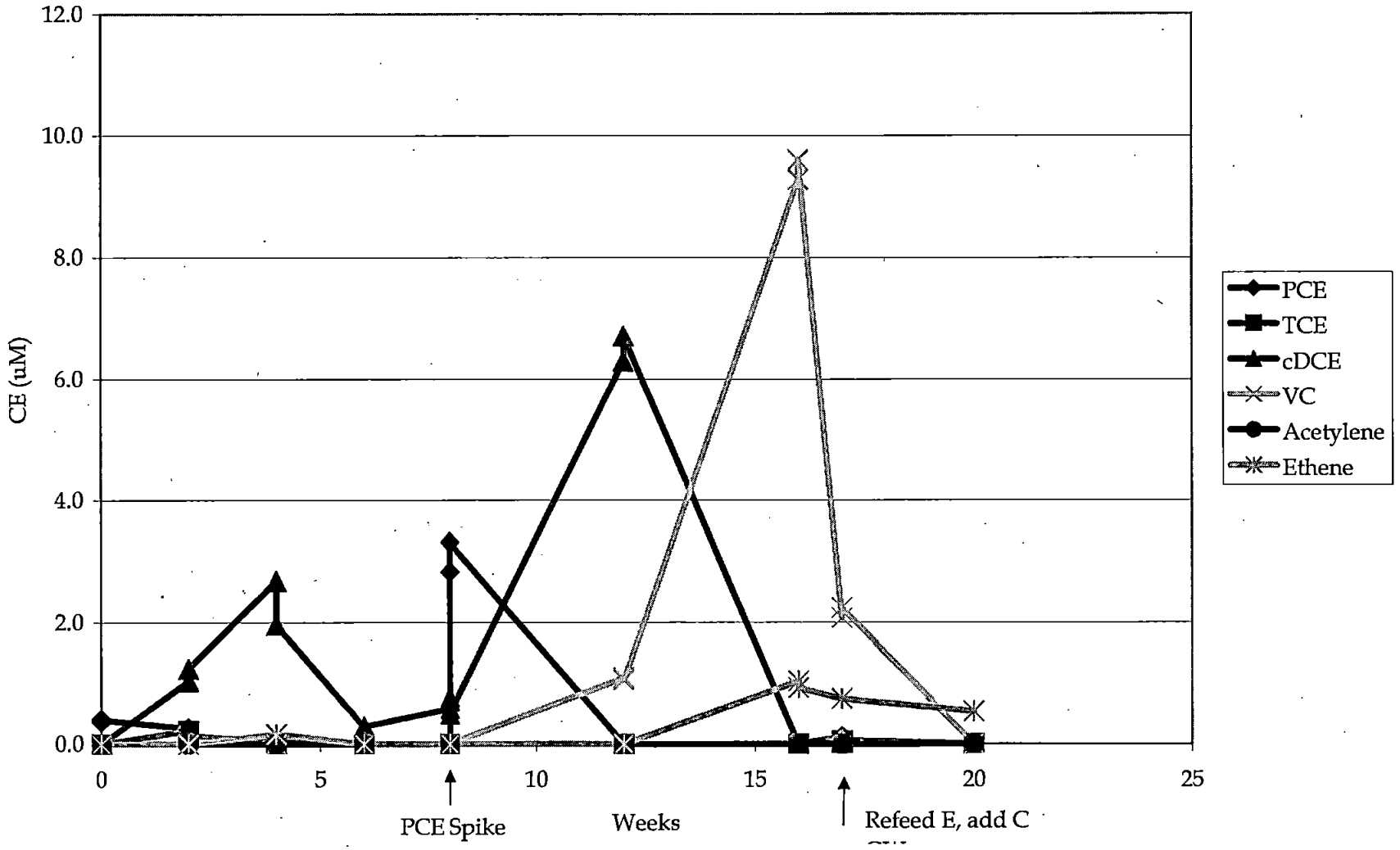

cDCE Concentrations in Snohomish Square Microcosm Study
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
cDCE (uM)
0
5
10
15
20
25
Weeks
PCE Spike E & H
Refeed E, F, G, and
A Poisoned Control
B Poisoned Control
C Unamended
D Unamended
E Lactate-Enriched
F Lactate-Enriched
G SRS-Enriched
H SRS Enriched

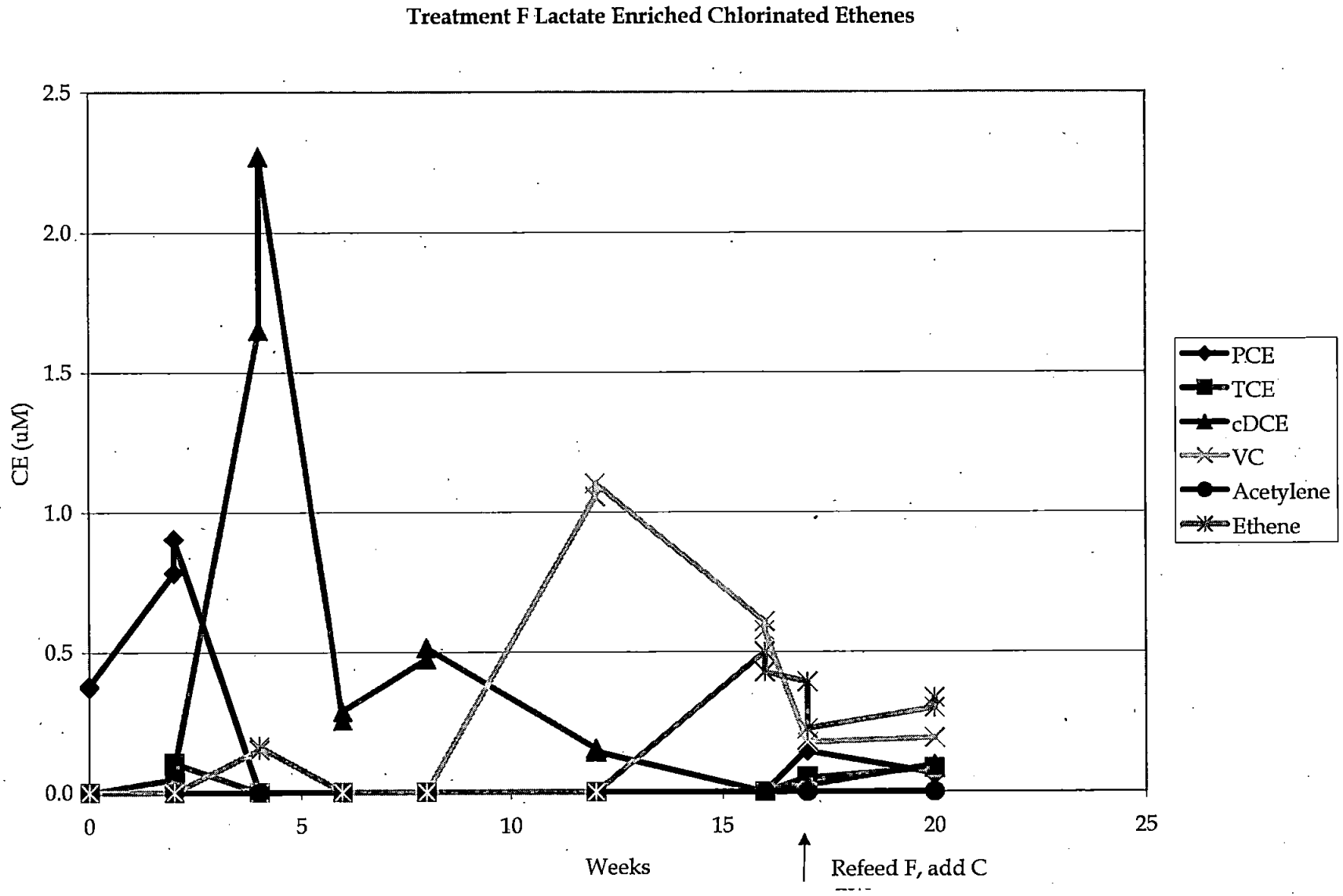

VC Concentrations in Snohomish Square Microcosm Study
12.0
10.0
8.0
6.0
4.0
2.0
0.0
VC (uM)
0
5
10
15
20
25
PCE Spike E & H
Weeks
Refeed E, F, G, and
A Poisoned Control
B Poisoned Control
C Unamended
D Unamended
E Lactate-Enriched
F Lactate-Enriched
G SRS-Enriched
H SRS Enriched

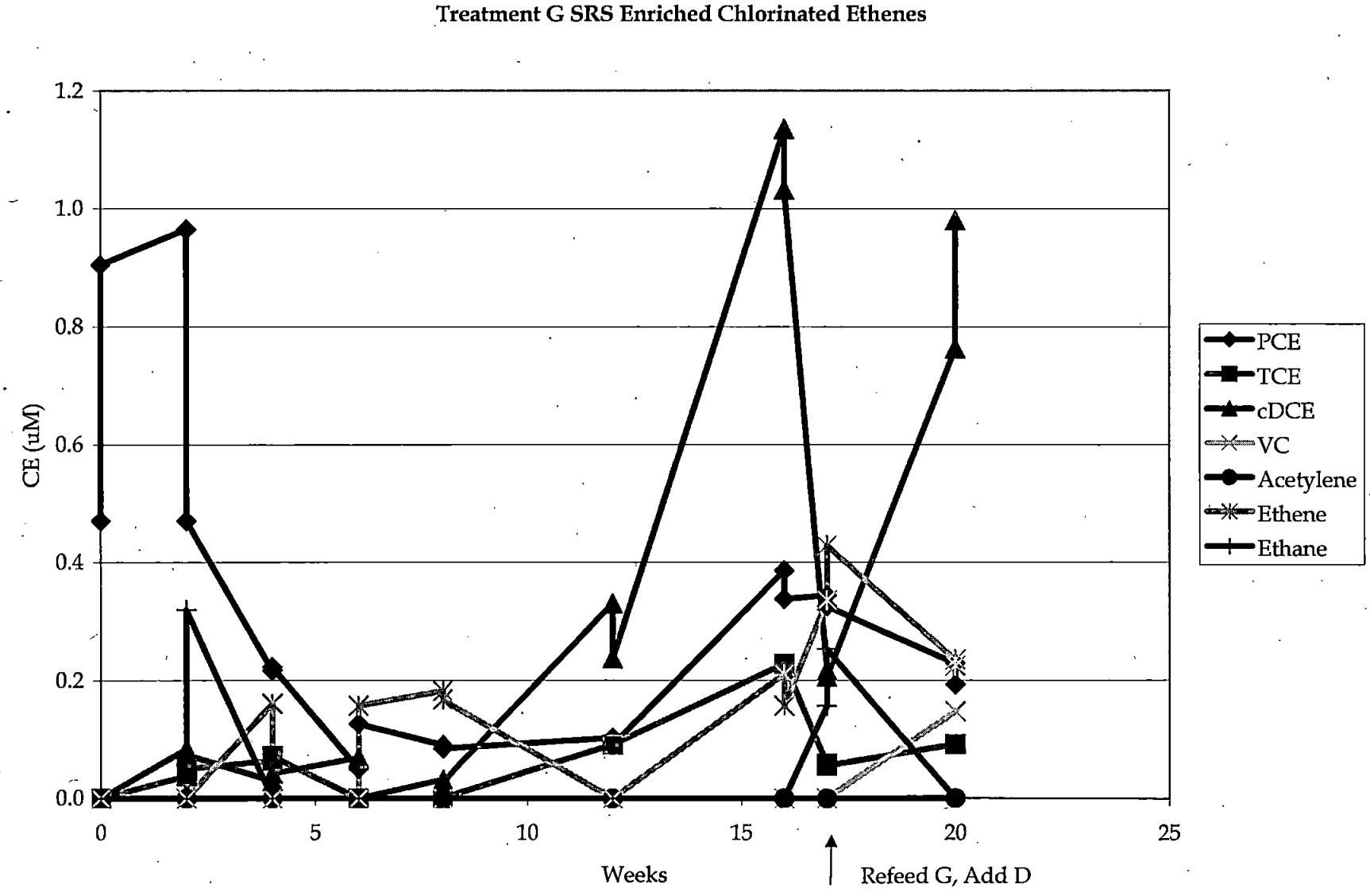

Acetylene Concentrations in Snohomish Square Microcosm Study
Acetylene (uM)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0
5
10
15
20
25
Weeks
PCE Spike E & H
Refeed E, F, G, and H
A Poisoned Control
B Poisoned Control
C Unamended
D Unamended
E Lactate-Enriched
F Lactate-Enriched
G SRS-Enriched
H SRS Enriched

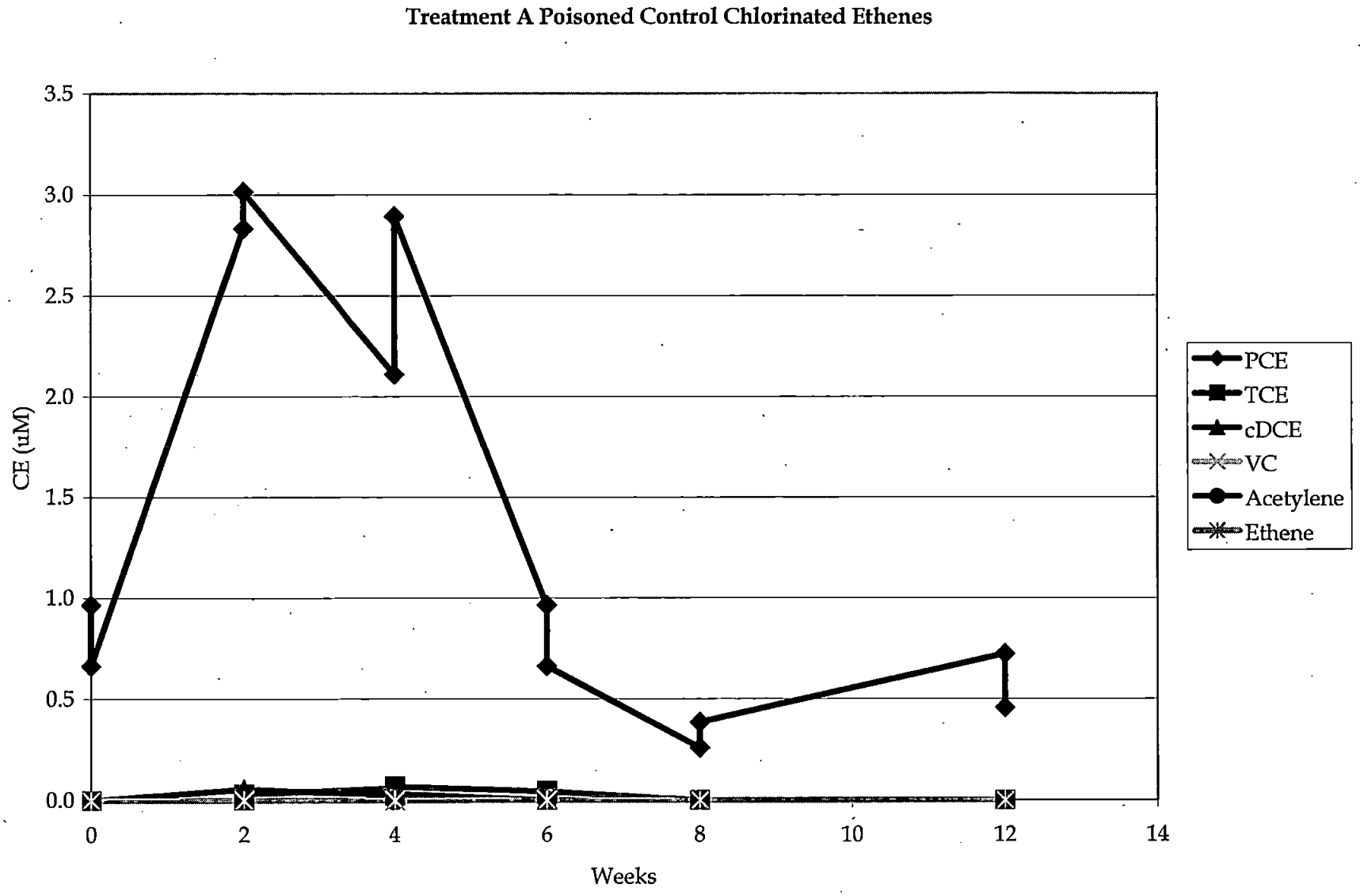

Ethene Concentrations in Snohomish Square Microcosm Study
Ethene (uM)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
20
25
Weeks
PCE Spike E & H
Refeed E, F, G, and
A Poisoned Control
B Poisoned Control
C Unamended
D Unamended
E Lactate-Enriched
F Lactate-Enriched
G SRS-Enriched
H SRS Enriched

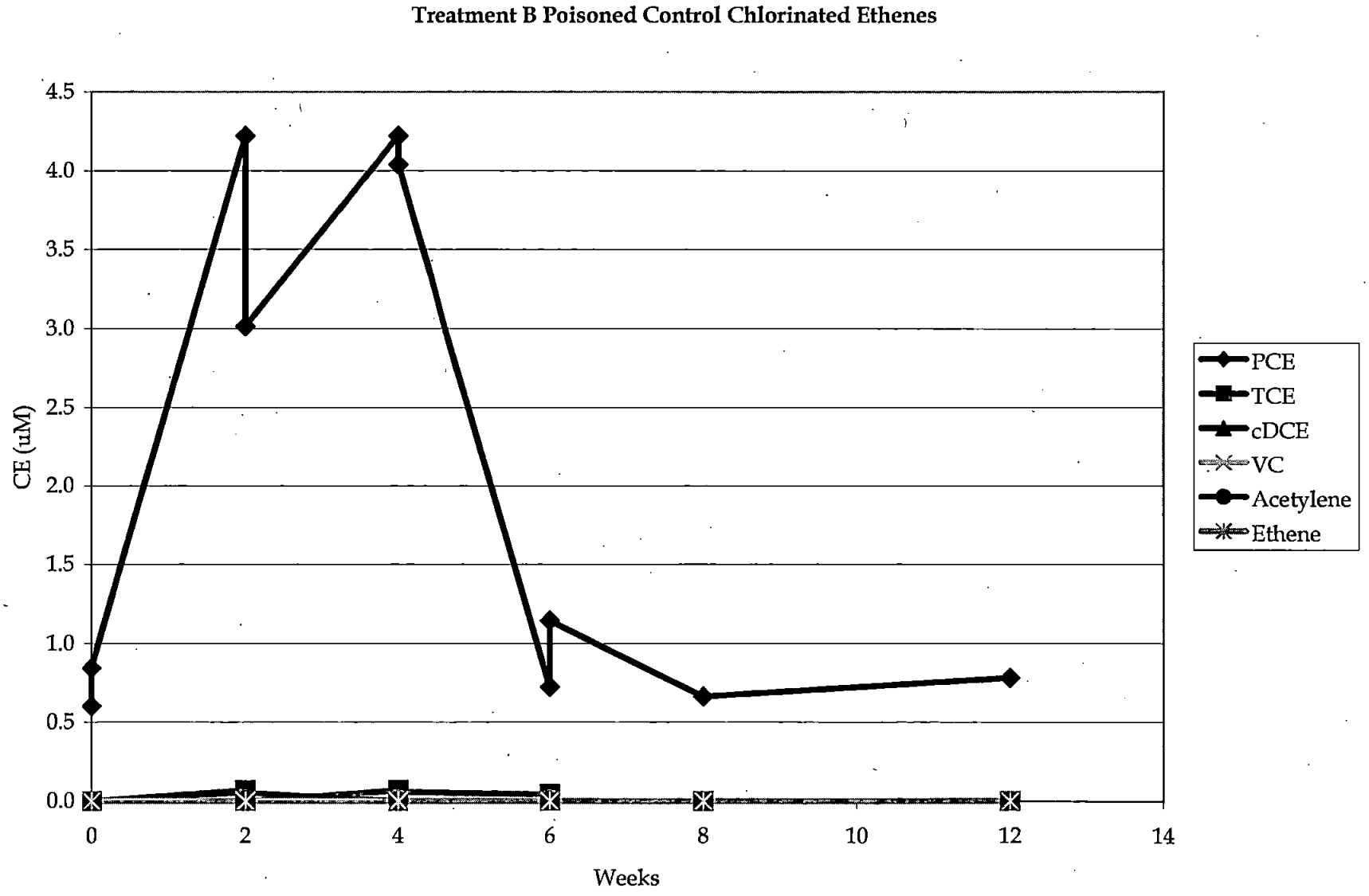

Ethane Concentrations in Snohomish Square Microcosm Study
Ethene (uM)
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
5
10
15
20
25
Weeks
PCE Spike E & H
Refeed E, F, G, and
A Poisoned Control
B Poisoned Control
C Unamended
D Unamended
E Lactate-Enriched
F Lactate-Enriched
G SRS-Enriched
H SRS Enriched

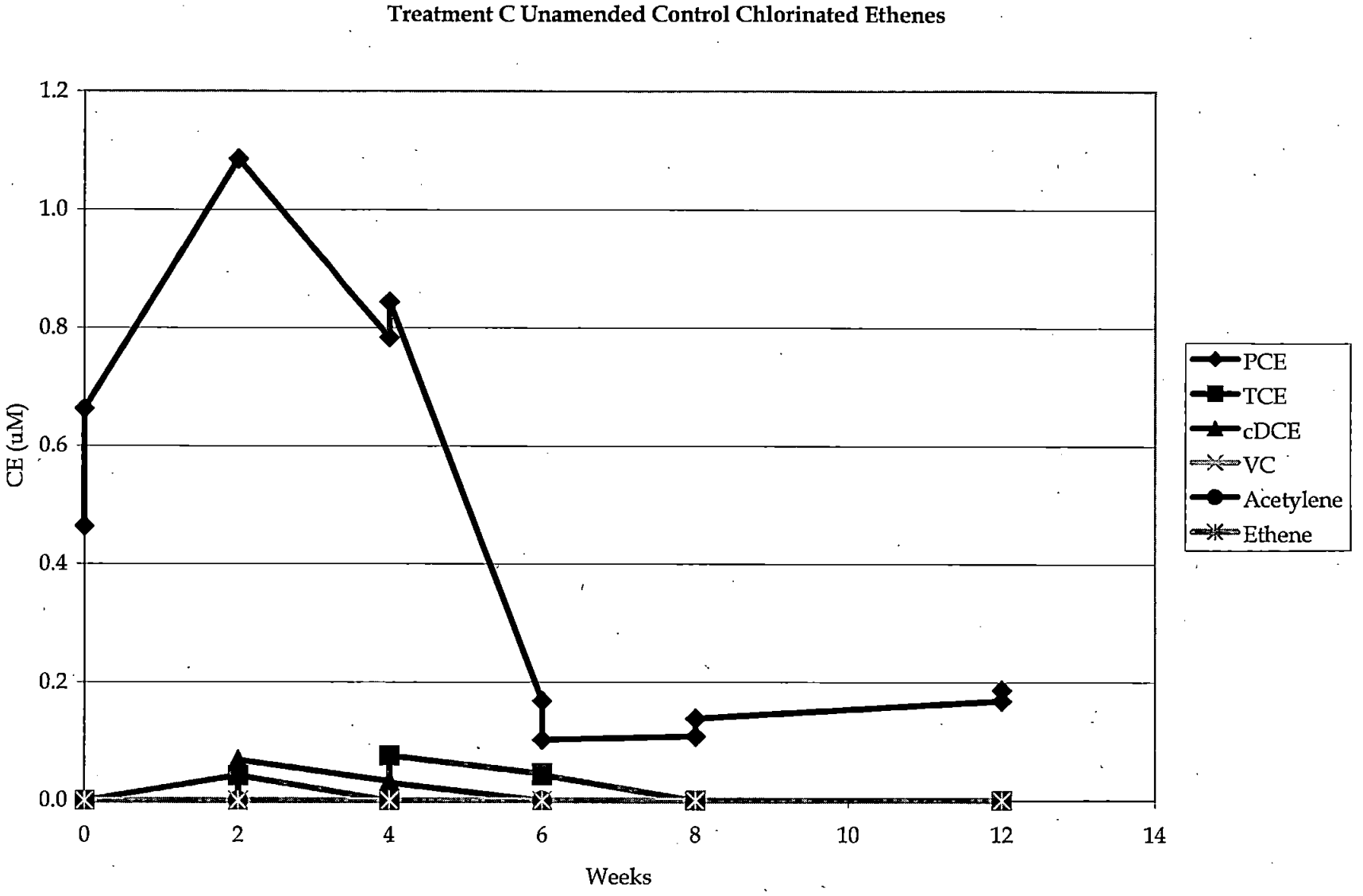

Treatment E Lactate Enriched Chlorinated Ethenes
12.0
10.0
8.0
6.0
4.0
2.0
0.0
CE (uM)
0
5
10
15
20
25
PCE Spike
Weeks
Refeed E, add C
PCE
TCE
cDCE
VC
Acetylene
Ethene

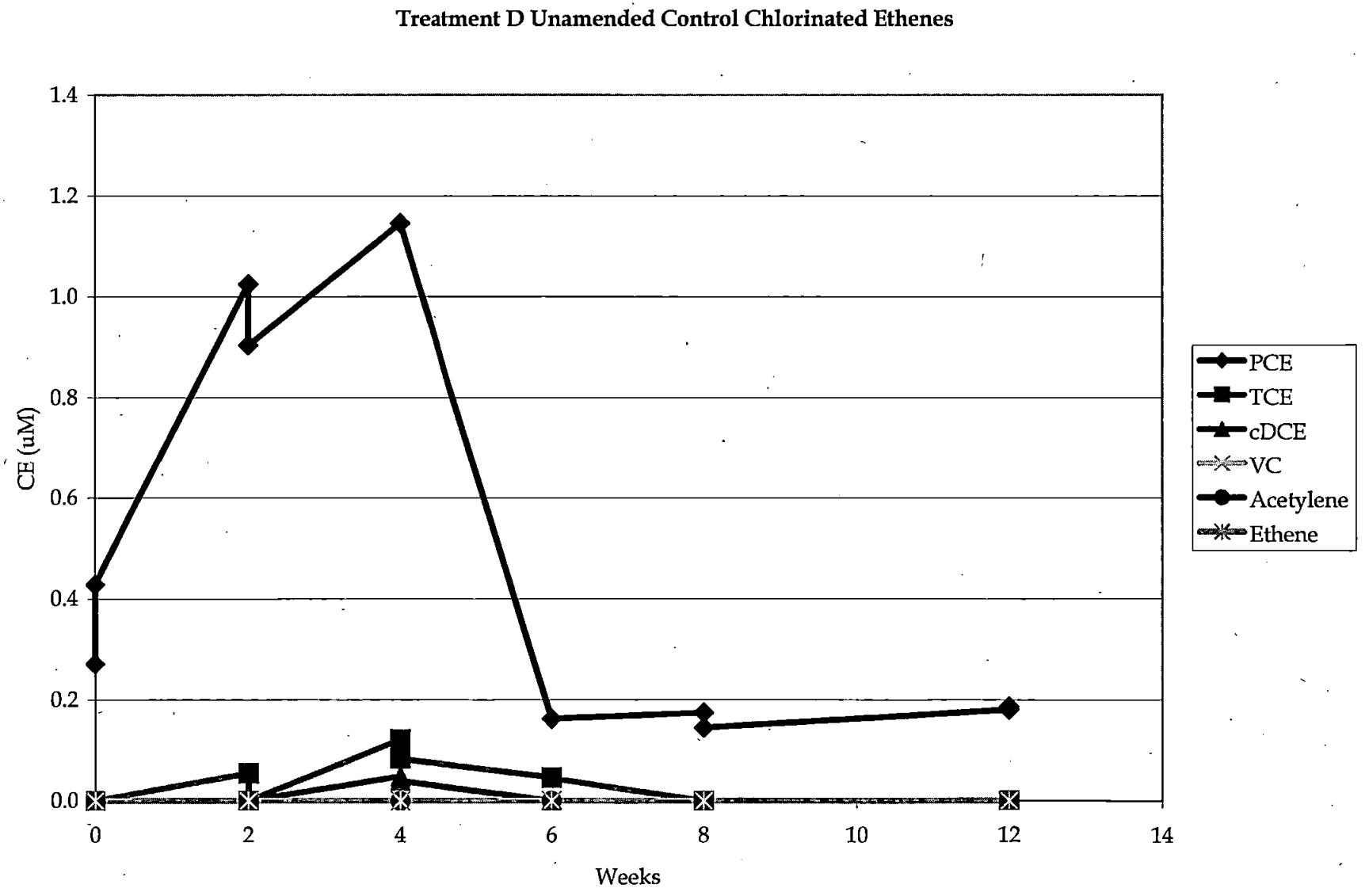

Treatment F Lactate Enriched Chlorinated Ethenes
2.5
2.0
1.5
1.0
0.5
0.0
CE (uM)
0
5
10
15
20
25
Weeks
Refeed F, add C
PCE
TCE
cDCE
VC
Acetylene
Ethene

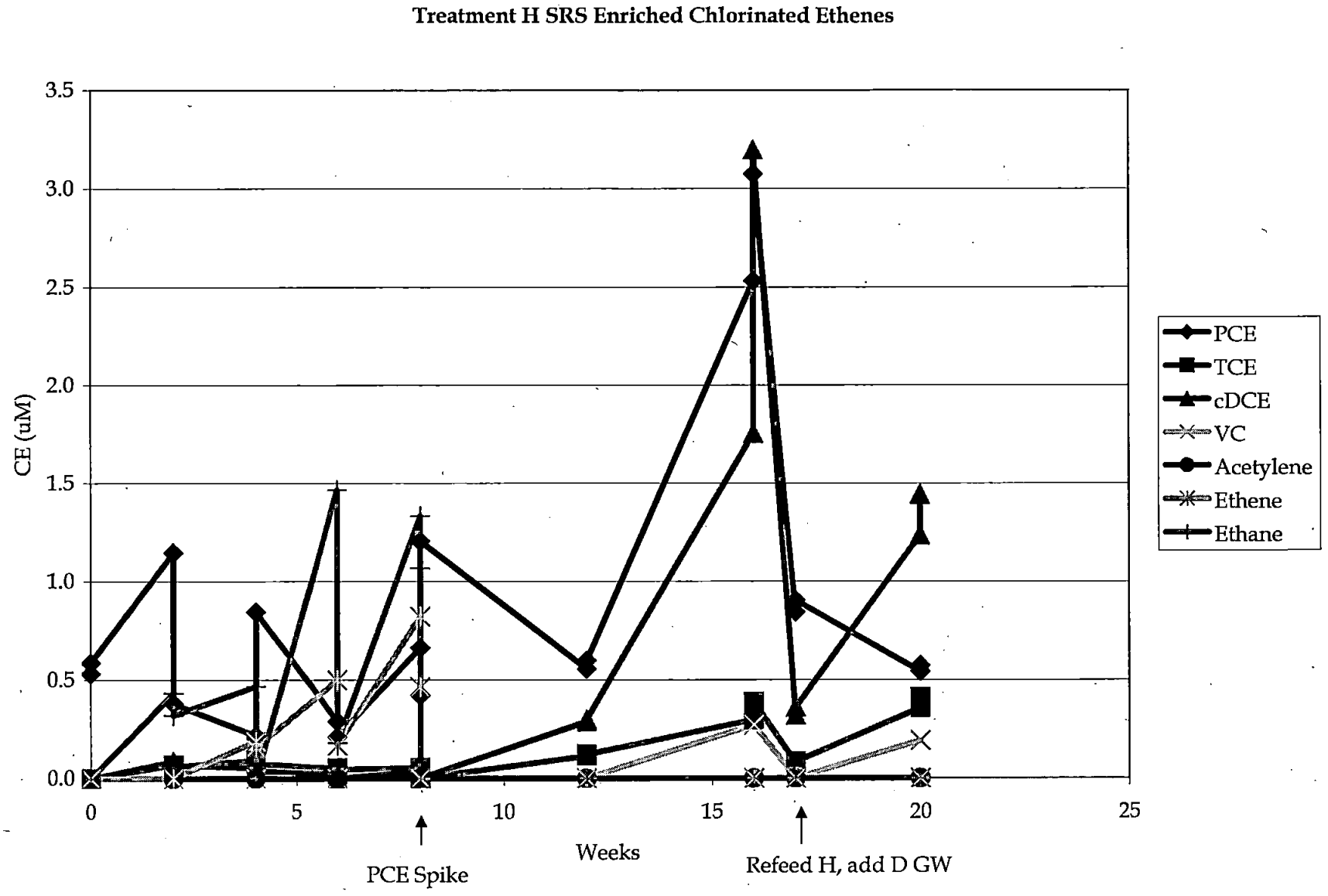

Treatment G SRS Enriched Chlorinated Ethenes
1.2
1.0
0.8
0.6
0.4
0.2
0.0
CE (uM)
0
5
10
15
20
25
Weeks
Refeed G, Add D
PCE
TCE
cDCE
VC
Acetylene
Ethene
Ethane


Treatment A Poisoned Control Chlorinated Ethenes
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
CE (uM)
0
2
4
6
8
10
12
14
Weeks
PCE
TCE
cDCE
VC
Acetylene
Ethene


Treatment B Poisoned Control Chlorinated Ethenes
CE (uM)
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
Weeks
PCE
TCE
cDCE
VC
Acetylene
Ethene


Treatment C Unamended Control Chlorinated Ethenes
1.2
1.0
0.8
0.6
0.4
0.2
0.0
CE (uM)
0
2
4
6
8
10
12
14
Weeks
PCE
TCE
cDCE
VC
Acetylene
Ethene


Treatment D Unamended Control Chlorinated Ethenes
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
CE (uM)
0
2
4
6
8
10
12
14
Weeks
PCE
TCE
cDCE
VC
Acetylene
Ethene


Treatment H SRS Enriched Chlorinated Ethenes
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
CE (uM)
0
5
10
15
20
25
Weeks
PCE Spike
Refeed H, add D GW
PCE
TCE
cDCE
VC
Acetylene
Ethene
Ethane